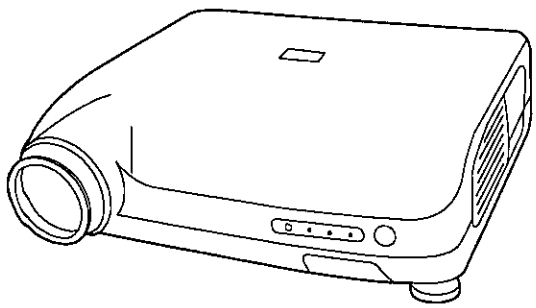
SHARP SERVICE MANUAL SERVICE-ANLEITUNG

S06T1XV380H//



PAL/SECAM/NTSC SYSTEM
LCD PROJECTOR
LCD PROJEKTOR

MODEL MODELL XV-380H

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzer-Sicherheit (in einigen Länder durch Sicherheitzvorschriften gefordert) sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.

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SHARP CORPORATION

SPECIFICATIONS

Product Type		LCD Projector
Model		XV-380H
Video system		PAL/SECAM/NTSC 3.58/NTSC 4.43
Display method		LCD panels × 3, RGB optical shutter method
LCD panels	Panel size	3.0" (4.5(H) × 6.2(W) cm)
	Display method	Translucent TN liquid crystal panels
	Drive method	TFT (Thin Film Transistor) Active Matrix panels
	No. of pixels	309,120 dots × 3 panels
Lens		1-1.6 zoom lens, F3.6-4.6, f=105-168 mm
Projection lamp		250 W Metal halide
Contrast ratio		100:1
Video input signal		RCA Connector: VIDEO, composite video, 1Vp-p, sync negative, 75Ω terminated RCA Connector: AUDIO, 142 mVrms, more than 47KΩ (stereo)
S-video input signal		4-pin mini DIN connector Y (luminance signal): 1 Vp-p, sync negative, 75Ω terminated C (chrominance signal): burst 0.286 Vp-p, 75Ω terminated
Video (monitor) output signal		RCA Connector: VIDEO, composite video 1Vp-p, sync negative, 75Ω terminated RCA Connector: AUDIO, 142 mVrms, more than 47KΩ (stereo)
Horizontal resolution		500 TV lines (video input)
Audio output		3W (monaural)
Speaker system		3" (8 cm) round
Rated voltage		AC 200-240V
Rated frequency		50/60 Hz
Power consumption		335W
Standby consumption		4.3 W
Operating temperature		5°C to 40°C
Storage temperature		−20°C to 55°C
Cabinet		Plastic
Dimensions (W x D x H)		500 × 447 × 201 mm projector only 500 × 520 × 201 mm incl. terminal cover
Weight		12.1 kg-projector only, 12.4 kg incl. terminal cover
Supplied accessories		Remote control unit, two AAA batteries, lens cover (installed), terminal cover, extra air filter, inverting labels, AV cable, 21 pin RCA conversion adaptor
Replacement parts		Remote control (RRMCG1310CESA), Air filter (PFILD0030CEZZ), AV cable (QCNW-3740CEZZ), 21 pin RCA conversion adaptor (QSOCZ0305CEZZ)

Our projector uses LCD (Liquid Crystal Display) panels. These very sophisticated panels contain 309,120 pixel (xRGB) TFTs. (Thin Film Transistors). As with any high technology electronic equipment such as large screen TVs, video systems and/or video cameras, there are certain acceptable tolerances that the equipment must conform to.

Sharp's acceptable tolerances permit a total of six (6) inactive TFTs, which may result in illuminated dots on the picture screen.

This will not affect the picture quality or the life expectancy of the unit.

*Specifications are subject to change without notice.

NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

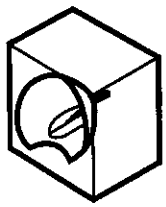
The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

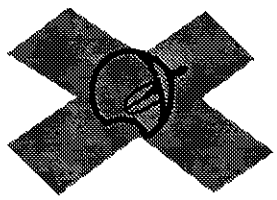
To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0031DE01 rated 65V/250W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

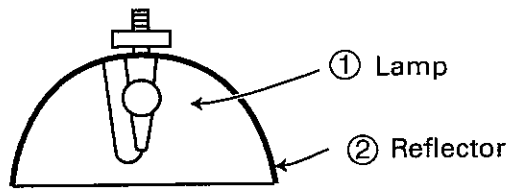
■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)

Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposurem (Fig. 1).

Note: Please obtain a lens cap before servicing a model XV-380H that is received without one.

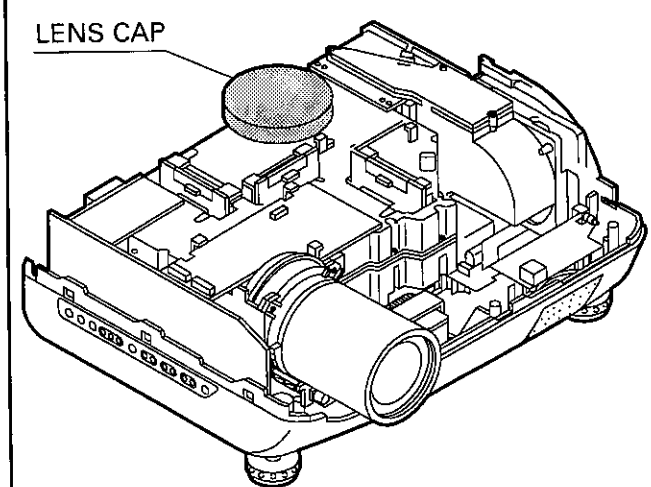
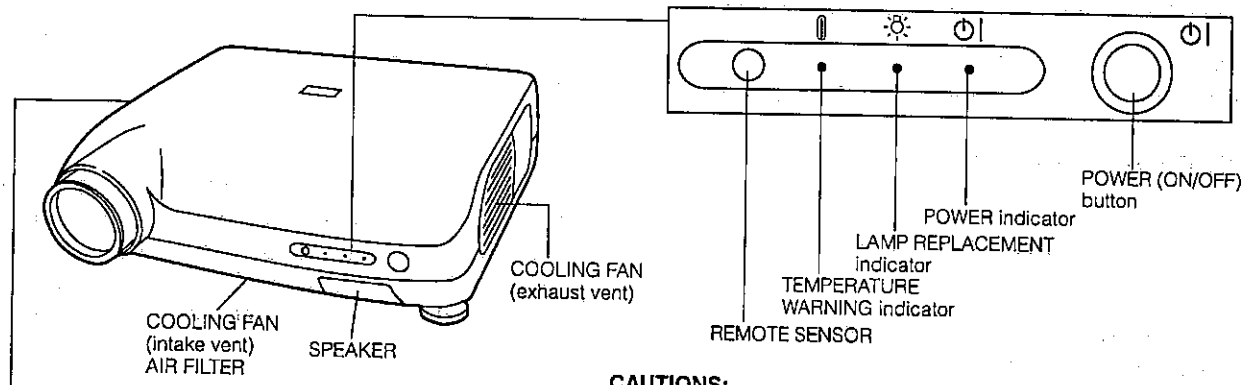


Figure 1.

Location of Controls

FRONT VIEW



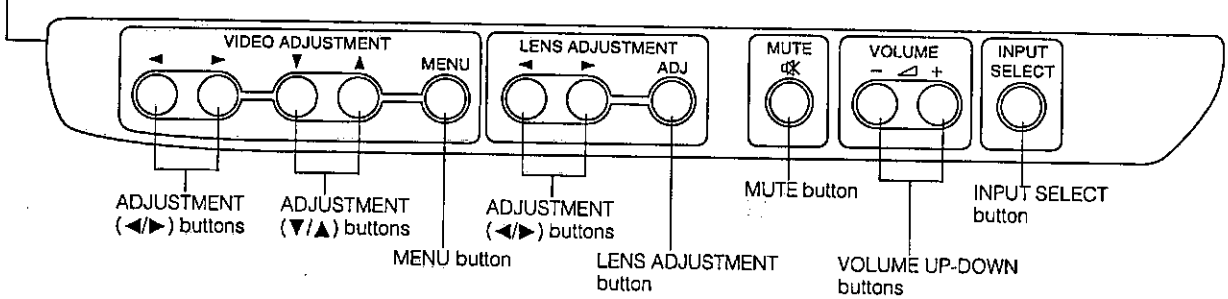
CAUTIONS:

- Allow at least 10 cm of space between the cooling fan (exhaust vent) and the wall.
- If the cooling fan becomes obstructed, a protection device will automatically turn off the projector lamp. This does not indicate a malfunction. Remove the projector plug from the wall outlet and wait 10 minutes. Then turn on the power by plugging the cord back in. This will return the projector to its normal mode.

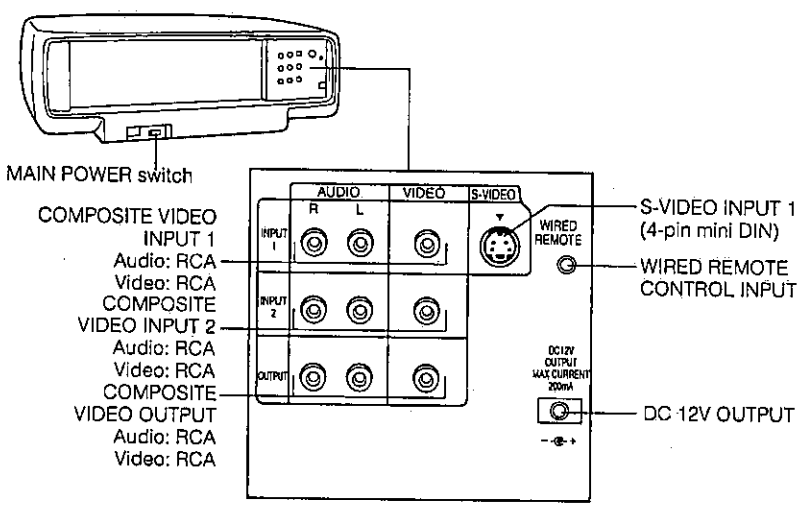
OPERATION PANEL ON SIDE OF PROJECTOR

Phosphorescent Display

The operation controls on the right side use a phosphorescent display for easy viewing. When exposed to surrounding light, the phosphorescent display will glow in the dark.
(Glow ratio)
When exposed to sunlight or other light of 500 lux or more for about 10 minutes, the display will glow for about 1 hour.
(**Note:**-500 lux = 1-1.5m directly under a 40W fluorescent light.)



REAR VIEW

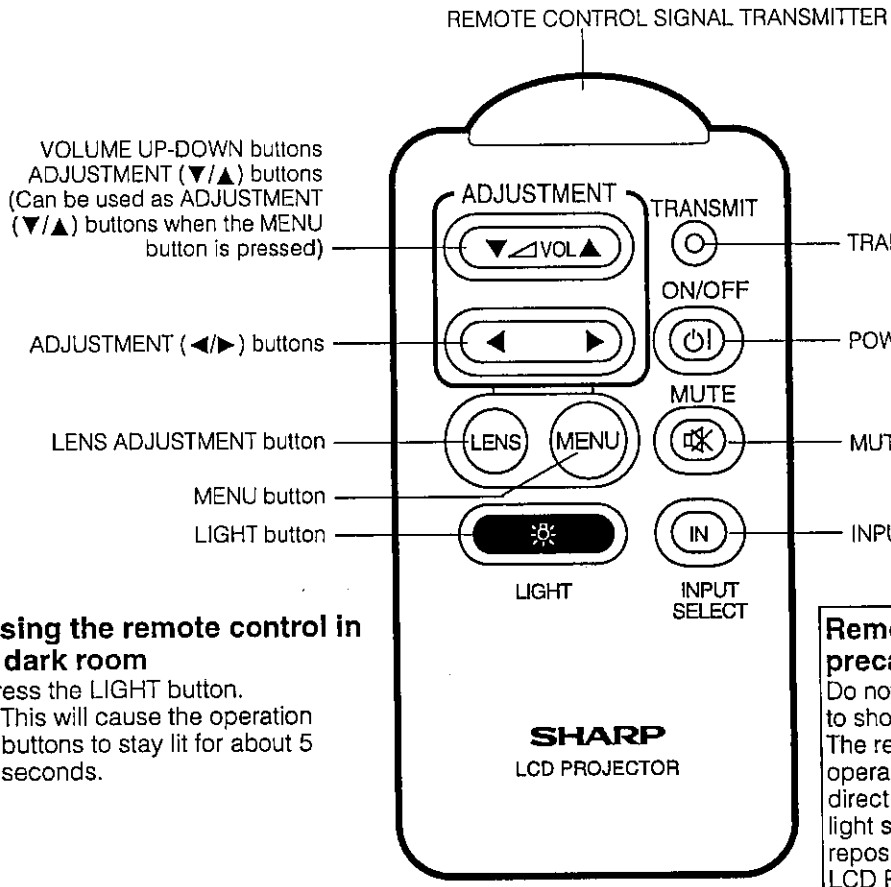


Note:

- If a current of 200mA or more is drawn from the DC 12V OUTPUT jack, a protection device will automatically turn off the projector and leave it in Stand-by mode.

Remote Control Operation

REMOTE CONTROL



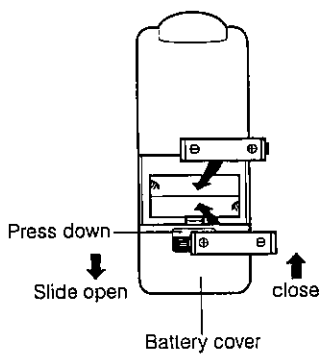
Using the remote control in a dark room

Press the LIGHT button.

- This will cause the operation buttons to stay lit for about 5 seconds.

Remote control handling precautions

Do not expose the remote control to shocks, liquids or high humidity. The remote control may not operate normally if exposed to direct sunlight or other intense light sources. Should this happen, reposition the light source or the LCD Projector.



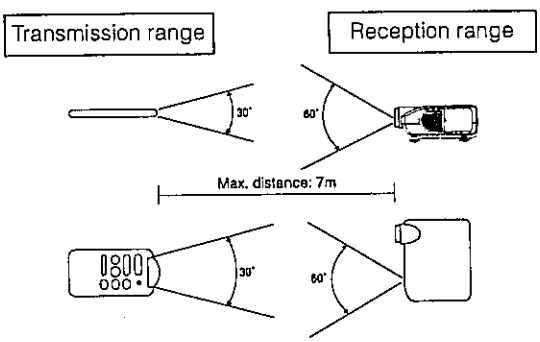
Inserting the Batteries

Remove the battery cover as shown and insert two AAA size batteries making sure the polarity matches the (+) and (–) marks inside the battery compartment.

Notes:

Incorrect use of batteries may cause them to leak or burst.

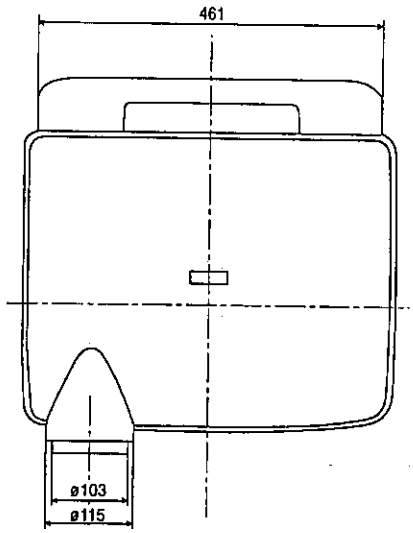
- Insert the batteries with the (+) and (–) polarities as indicated.
- Remove the batteries if the remote control will not be operated for an extended period of time.
- Maintain the batteries in clean condition.
- Do not mix different brands of batteries. The life expectancy of the new batteries will be shortened and the old batteries may leak.
- When the batteries have been used up, remove them immediately to prevent leakage and damage. Leaked battery fluid may irritate the skin. Remove any battery fluid by wiping with a cloth.
- Due to storage conditions and the shelf life of the supplied batteries, they may run out after a short time. Replace them with new batteries as soon as possible.



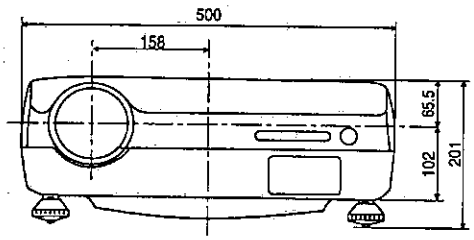
Remote control positioning

Use the remote control as shown in the figures on the left.

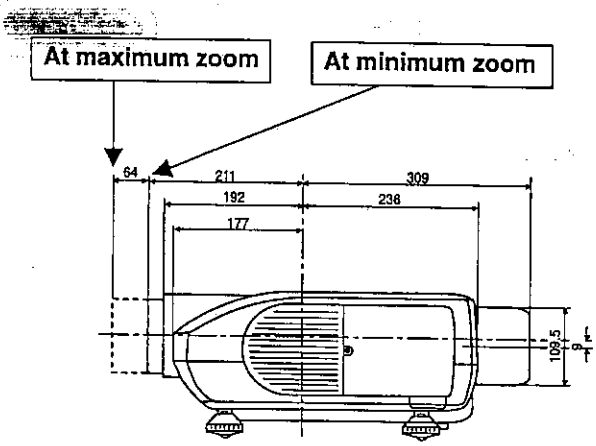
Dimensions



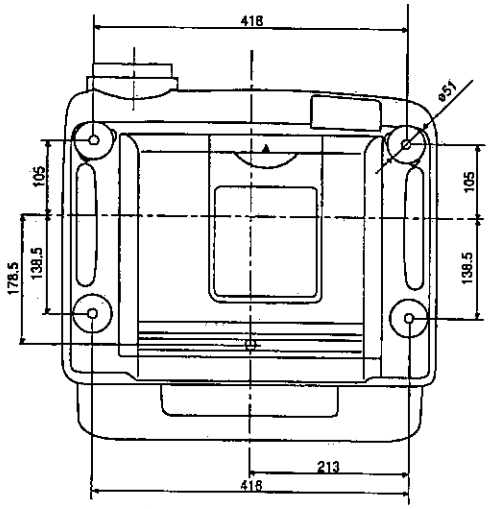
Top View



Front View



Side View



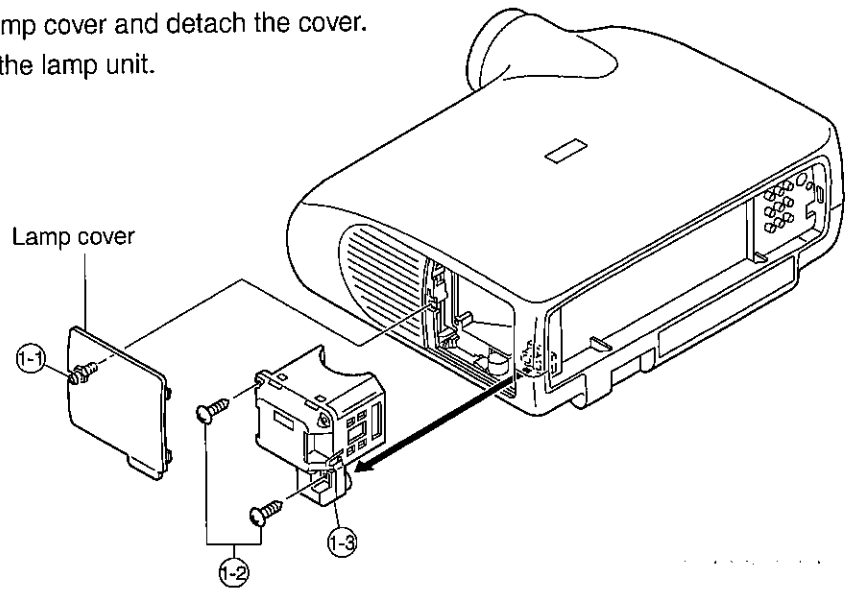
Bottom View

[Units: mm]

REMOVAL OF MAJOR COMPONENTS

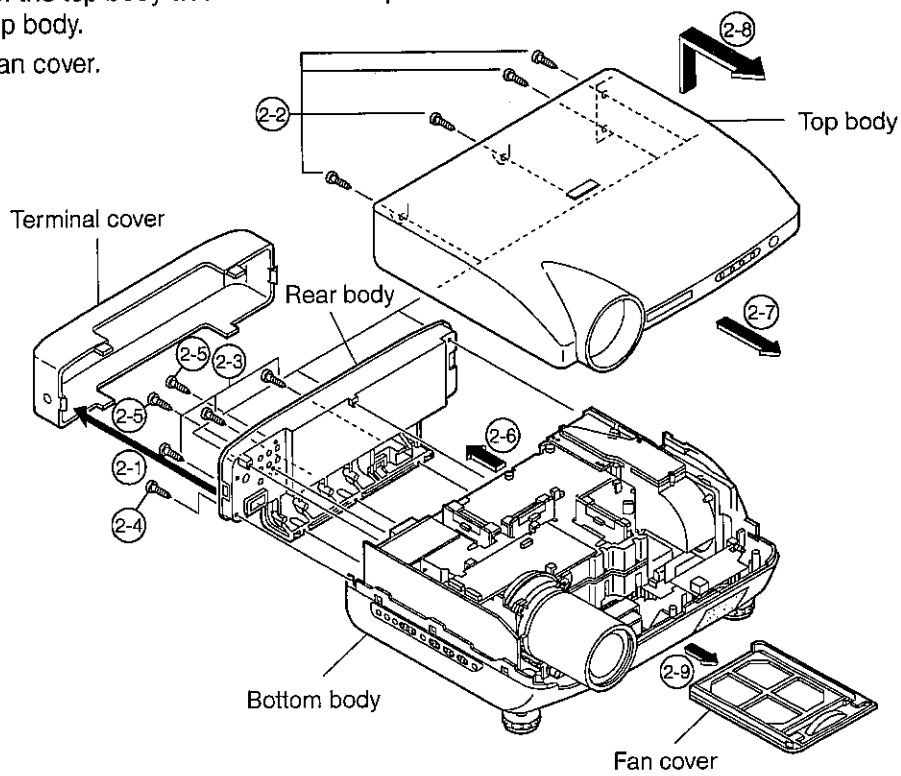
1. Removing the Lamp Unit

1-1. Remove the screw from the lamp cover and detach the cover.
1-2. Remove the two screws from the lamp unit.
1-3. Draw out the lamp unit.



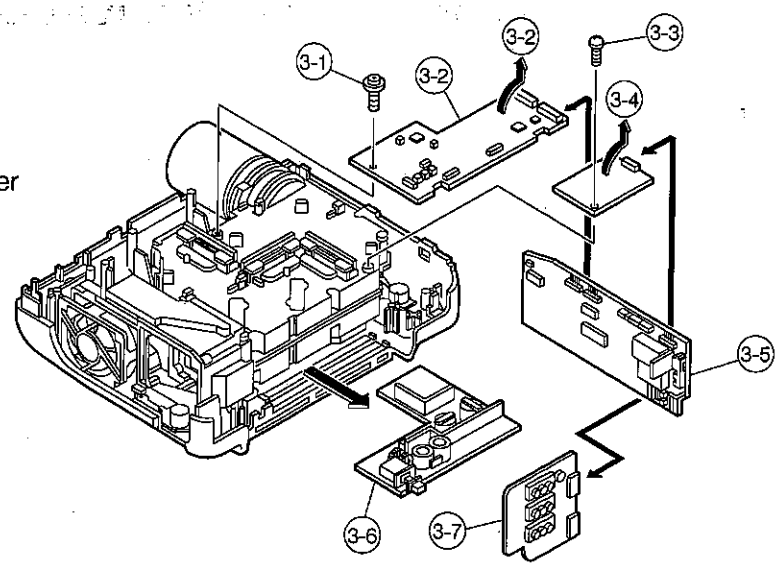
2. Removing the Top and Rear body and the Fan Cover

2-1. Deatach the lugs on both sides of the terminal cover and take it off.
2-2. Remove the four screws securing the top body.
2-3. Remove the three screws securing the rear body.
2-4. Remove the screw securing the rear body.
2-5. Remove the two screws off the input PWB.
2-6. Remove the rear body.
2-7. Slide the top body forward about 10 mm.
2-8. Lift the back of the top body about 30 mm and pull it to the front, and remove the top body.
2-9. Remove the fan cover.



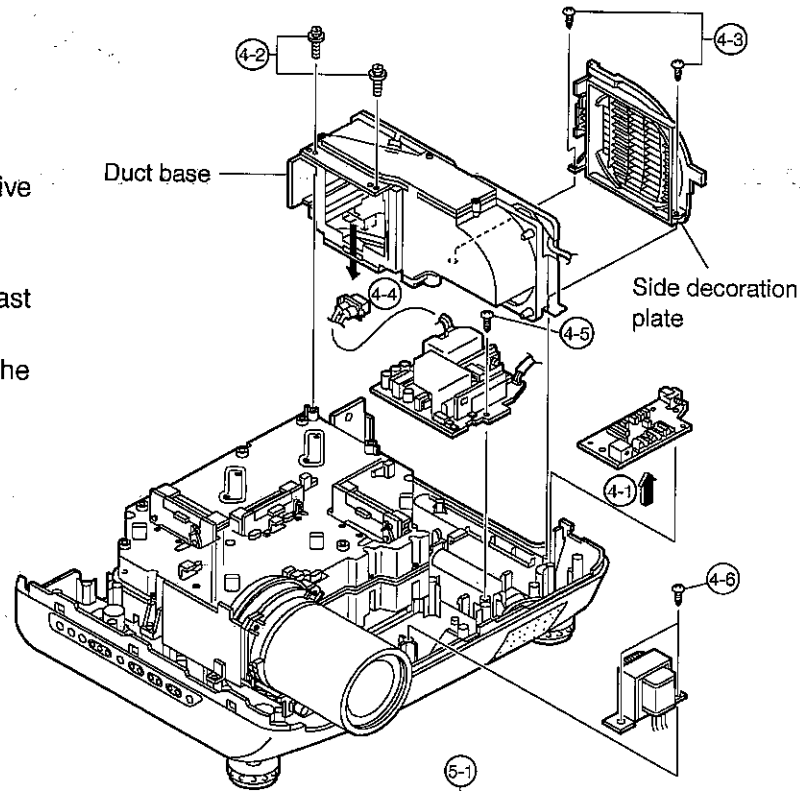
3. Removing the Main and Sub PWBs

3-1. Remove the screw off the Control PWB.
3-2. Take out the Control PWB.
3-3. Remove the screw off the Scan Converter PWB.
3-4. Take out the Scan Converter PWB.
3-5. Take out the Main PWB.
3-6. Take out the Power PWB.
3-7. Take out the Input PWB.



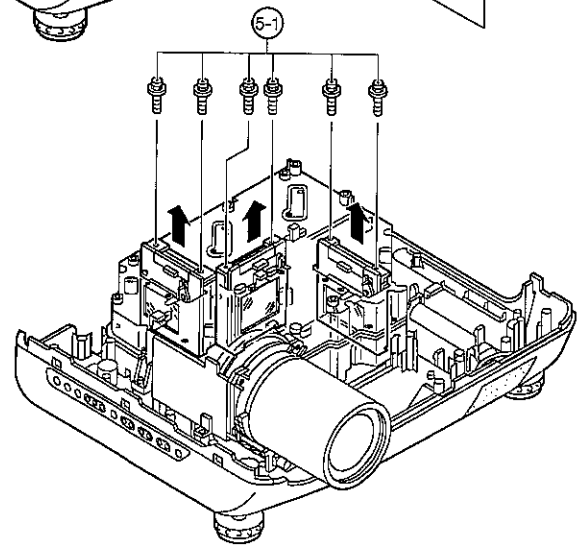
4. Removing the PWBs

4-1. Take out the LED PWB.
4-2. Remove the two screws off the fan unit.
4-3. Remove the two screws off the decorative side panel.
4-4. Disconnect the Ballast PWB socket.
4-5. Remove the screw to take out the Ballast PWB.
4-6. Remove the two screws to take out the choke trans.



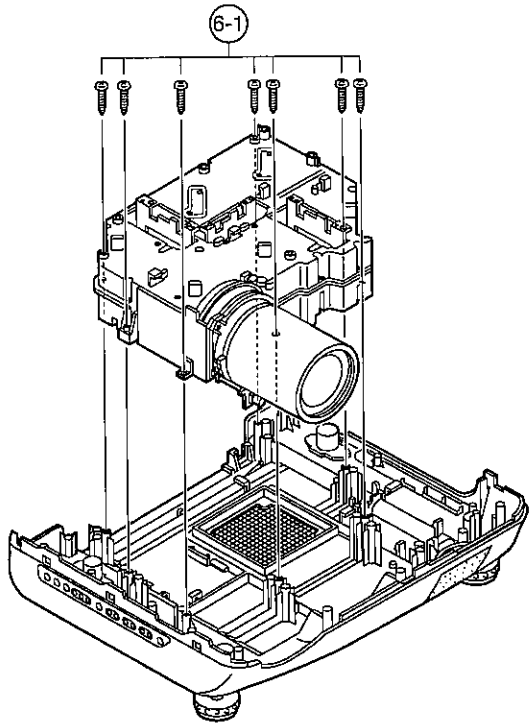
5. Replacing the LCD Panels

5-1. Remove the two screws each from the R, G and B LCD panels, and take out the panels.



6. Taking out the Optical Mechanism

6-1. Remove the seven screws off the optical mechanism, and detach the mechanism.



7. Removal of the Lamp

7-1. To remove the lamp cover:

a) Insert a coin or equivalent spacer between each of the three lugs (A, B and C shwon at left) and the lamp cover. Now take the lamp cover from the lamp case.

7-2. To remove the lamp leads:

a) Remove the screw and unit.

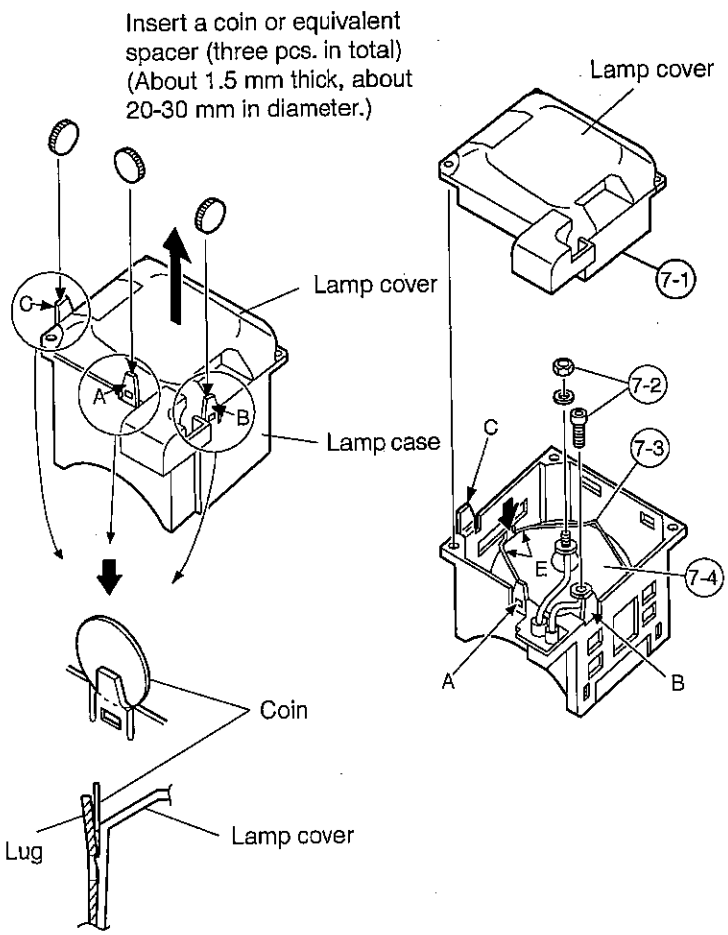
b) Disconnect the lamp leads.

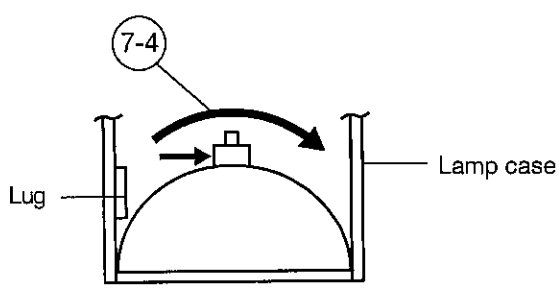
7-3. To remove the lamp retaining spring:

a) Push spring section labeled E in the direction of the arrow (down) to detach from lug.

7-4. To remove the lamp:

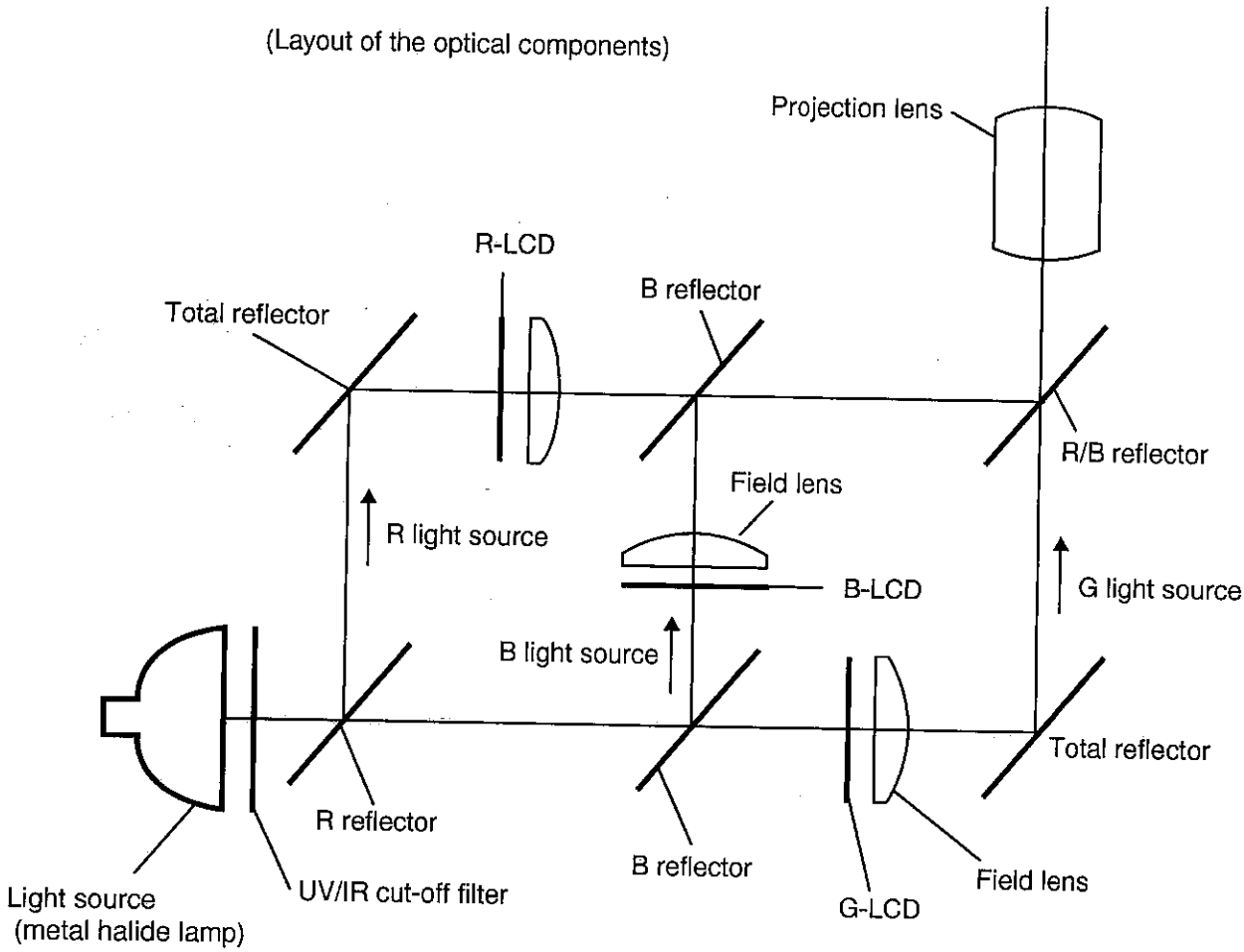
a) Tilt lamp in direction of the arrow by pushing the neck until outer edge of lamp clears the lug.





THE OPTICAL UNIT OUTLINE

Basic optical adjustment



1. Optical axis alignment

R : Light source – [R reflector] – [Total reflector] – R and B reflectors – Projection lens
G : Light source – Total reflector – Projection lens
B : Light source – [B reflector] – B reflector – R and B reflectors – Projection lens
Adjust the angles of the reflectors boxed above with reference to G light source so that R and B light sources are aligned with G light source when entering the projection lens.

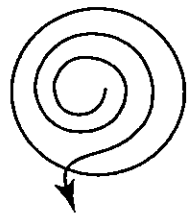
2. LCD parallelism

R : R-LCD unit – Field lens – R/B reflector – Projection lens
G : R-LCD unit – Field lens – Total reflector – Projection lens
B : R-LCD unit – Field lens – B reflector – R/B reflector – Projection lens
Each of the LCD units can be adjusted to improve the view angle and focusing.

■ Cleaning the lenses and reflectors

1. Lens cleaning

- Cleaning agent:
  Change the mixture ratio of alcohol and ether depending on ambient temperatures. Make sure that the liquid evaporates from the lens surface immediately after you rub it: This is the best ratio. The more ether is used, the quicker the liquid evaporates.
- Method:
  Use well-washed bleached cotton or cleaning paper available on the market. Hold the lens, sandwiched in the bleached cotton damped with the liquid, with the thumb and the index finger. Turn the lens and wipe the surface clean from the center outward to collect dust. Be careful not to rub the coated surface too strong.



2. Reflector cleaning

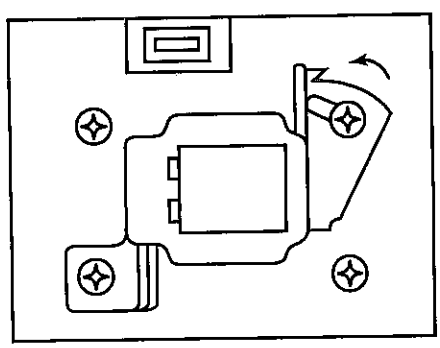
Never rub the reflector strongly because its surface has been deposit-coated. Use some alcohol first and then wipe with dry cloth if the surface is slightly dirty.

3. Precaution

The picture quality is greatly affected if both sides of the LCD unit and the LCD side of the field lenses are dirty . Pay enough attention to these surface.

■ Adjustment after LCD panel replacement

No angular adjustment of the polarizing plate is needed because of the improved angular precision. Just turn all the way counterclockwise and fix at that position.



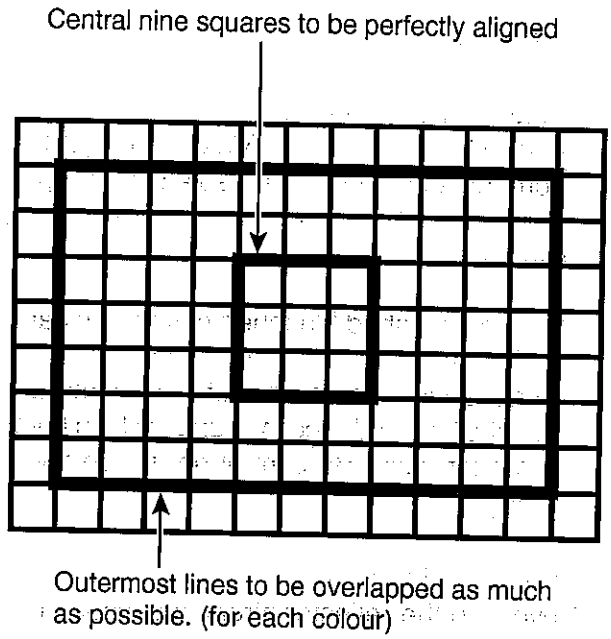
■ X and Y adjustment

1. Tools required

(1) Shielding plate (hard coated cardboard to cut off light rays)
(2) Pattern generator

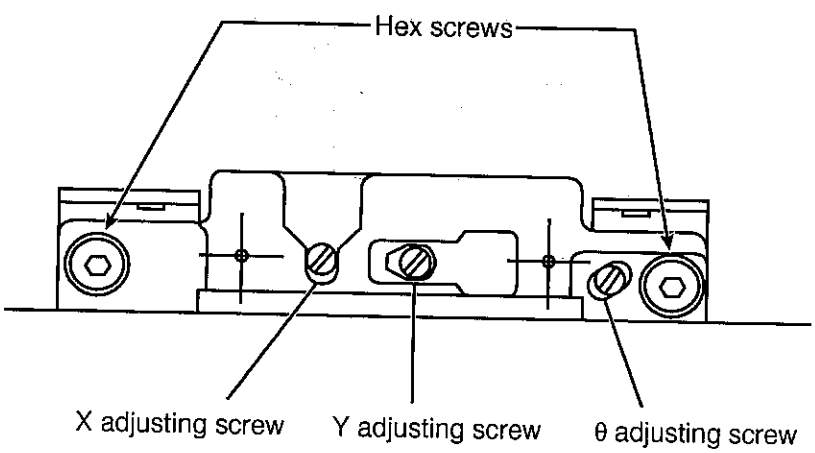
2. Adjustment references

(1) Use the G panel as reference. Adjust the R and B panels to the G panel.
(2) Perfectly align the central nine squares to the projection pattern.
(3) Keep the outermost lines overlapped as much as possible.



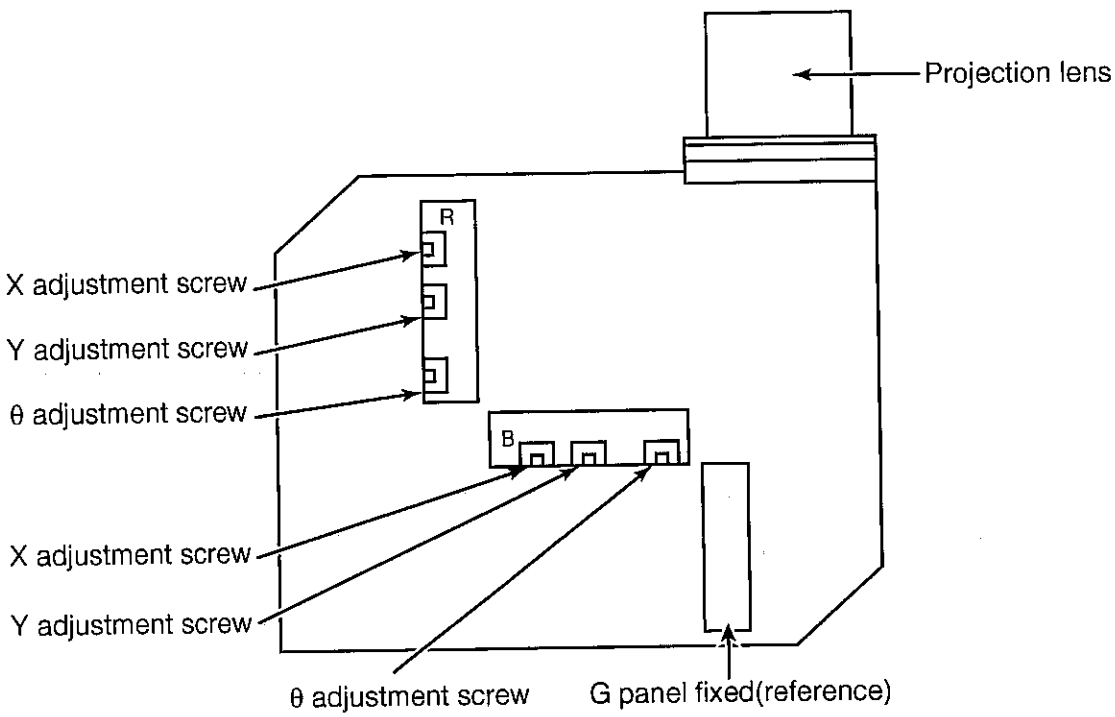
3. Adjustment procedures

(1) Loosen two hex screws each for the R-LCD panel and the B-LCD panel. (4 screws total)
(2) Input the grid signal from the pattern generator.
(3) Align the R-LCD panel.
- Put the shielding plate in front of the B-LCD panel. (To cutoff the B light source.)
- Adjust the X axis for horizontal direction.
- Adjust the Y axis for vertical direction.
- Adjust the θ direction for tilting.



(4) Align the B-LCD panel.
- Put the shielding plate in front of the R-LCD panel. (To cutoff R light source.)
- Overlap the B squares on the G squares.
- Adjust the X axis for horizontal direction.
- Adjust the Y axis for vertical direction.
- Adjust the θ direction for tilting.

(5) Tighten up the four hex screw (loosened in step (1) above) to 13 ± 1 kg-cm.



Adjustment screw	Roatating direction	R	B
θ	Clockwise	Right side up	Right side down
	Counterclockwise	Right side down	Right side up
Y	Clockwise	Lowered	Raised
	Counterclockwise	Raised	Lowered
X	Clockwise	Moves to right	Moves to left
	Counterclockwise	Moves to left	Moves to right

ADJ. IN FUNCTION

1. Outline
   This function is intended to make various adjustments using the ADJ. IN. switch (S2002) and membrane switch of the projector.
2. Keys used
   [S2002], [MENU], [INPUT SELECT], [SELECT UP:▲], [SELECT DOWN:▼], [ADJUST+:▶], [ADJUST-:◀], [VIDEO+/-], [BRIGHT+/-], [COLOR+/-], and [TINT+/-]
3. Last memory items
   Adjustment items: The previous settings in the ADJ. IN. mode are put in memory.
   Adjustment data for all the items
4. Procedures
   4-1. Call the ADJ. IN. mode using the [ADJ. IN.] switch.
   4-2. With the [SELECT UP:▲], [SELECT DOWN:▼], [ADJUST+:▶] and [ADJUST-:◀] keys, select a desired group of adjustment items. Press the [MENU] key.
   4-3. With the ▲, ▼, ◀ and ▶ keys, pick up a desired adjustment item in the group. Press the [MENU] key. (By pushing the ▲ or ▼ key, the adjustment items in the group change one after the other.)
   4-4. Press the [INPUT SELECT] key, and the just previously displayed adjustment item comes back on the screen.
   4-5. If the [ADJ. IN.] switch is pressed in the ADJ. IN. mode, the mode is called off. (The display in the ADJ. IN. mode is all expressed in English.)
5. Groups of adjustment items

VIDEO 1	VIDEO 2	VIDEO 3	MASK	N • W
SUB-DC	CB-R	PAL-SUB-C	TOP	RED
SUB-C	CB-G	BELL-FO	BOTTOM	GREEN
TINT	CB-B	SCM-R-Y		BLUE
COLOR	SUB-BIAS	SCE-B-Y		WHITE
PICTURE	R-DRIVE	PN-AMP		N • W
BRIGHT	R-BIAS	SCM-AMP		
	R-DRIVE	PAL-H		
	R-BIAS			

In the video input mode: VIDEO 1-3, MASK, N.W

NOTE : VIDEO 3 display apperars on the screen, but not used for this model.

DAC OPERATION

VIDEO 1

SUB-DC:	Sub-DC adjustment
SUB-C:	Sub-contrast adjustment
TINT:	Tint adjustment
COLOR:	Colour adjustment
PICTURE:	Picture adjustment
BRIGHT:	Brightness adjustment

VIDEO 2

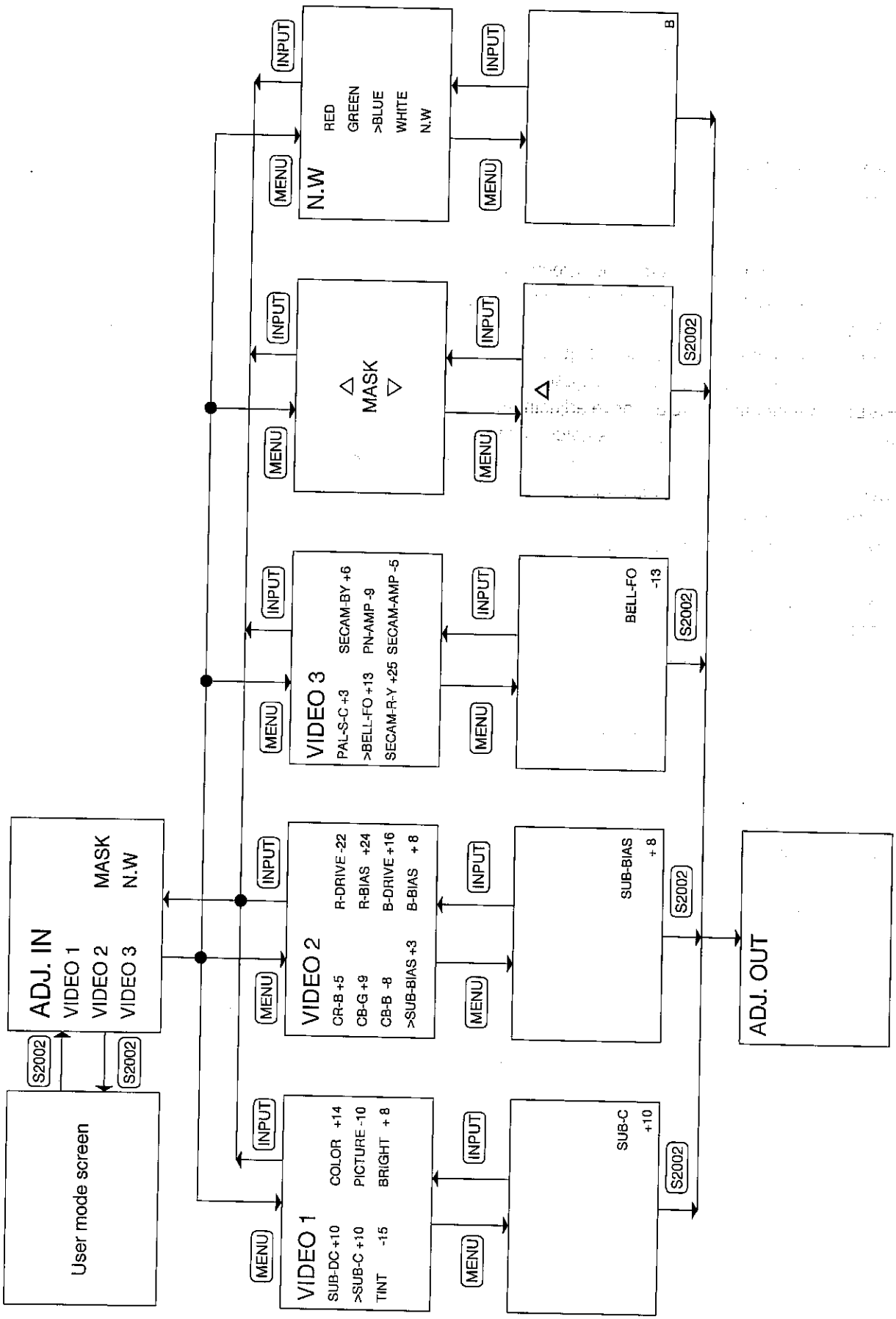
CB-R:	Counterbias adjustment for red only
CB-G:	Counterbias adjustment for green only
CB-B:	Counterbias adjustment for blue only
SUB-BIAS:	Not used
R-DRIVE:	White balance (red) drive adjustment
R-BIAS:	White balance (red) bias adjustment
B-DRIVE:	White balance (blue) drive adjustment
B-BIAS:	White balance (blue) bias adjustment

VIDEO 3 (This display apperars on the screen, but not used for this model.)

PAL-SUB-C:	PAL sub-contrast adjustment
BELL-FO:	Bell filter adjustment
SCM-R-Y:	SECAM R-Y adjustment
SCM-B-Y:	SECAM B-Y adjustment
PN-AMP:	PN amplitude adjustment
SCM-AMP:	SECAM amplitude adjustment
PAL-H:	Horizontal phase adjustment

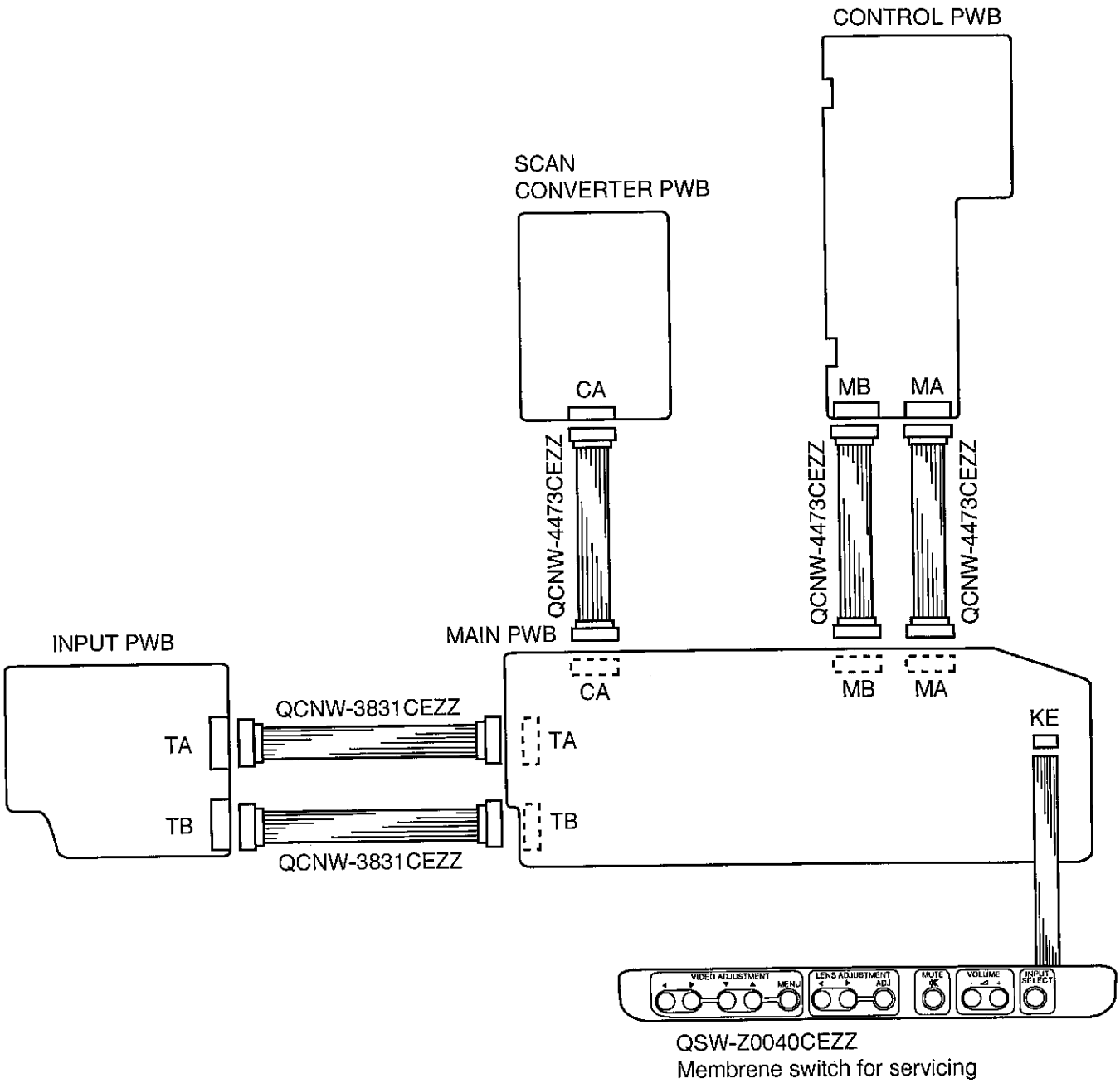
MASK	Masking adjustments
TOP:	Masking positioning for top-half screen
BOTTOM:	Masking positioning for bottom-half screen
N.W	Single-colour displays
RED:	Red
GREEN:	Green
BLUE:	Blue
WHITE:	White
N.W:	White

FLOWCHART OF ADJUSTMENT



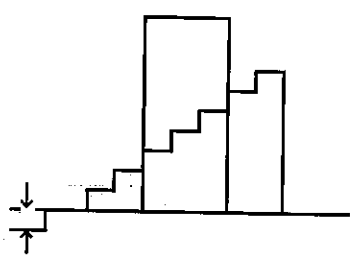
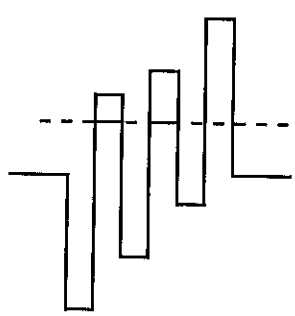
Connecting the Extension Servicing Cables.

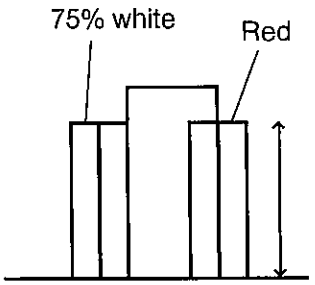
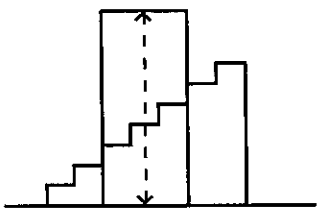
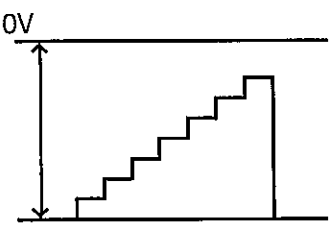
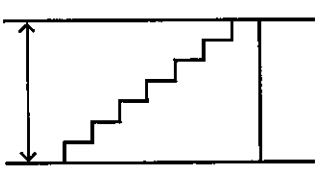
Disconnect the AC cord plug first and then connect the extension cables.

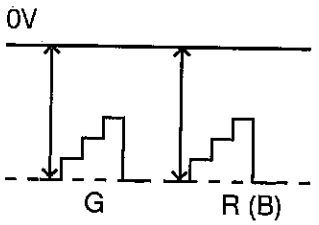
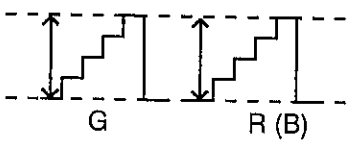
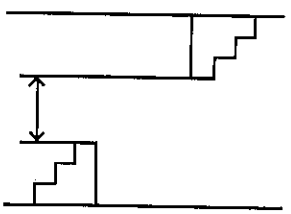


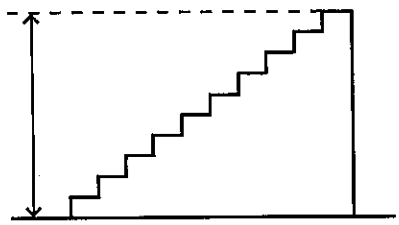
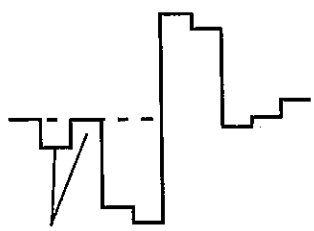
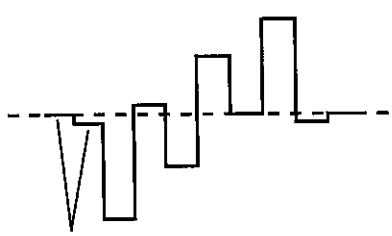
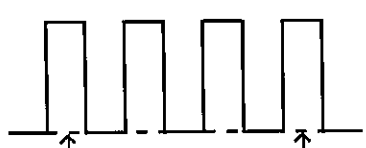
QSW-Z0040CEZZ
Membrene switch for servicing

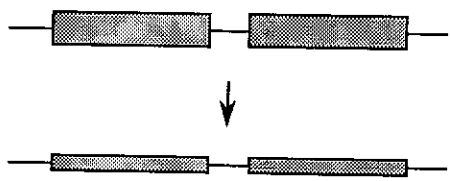
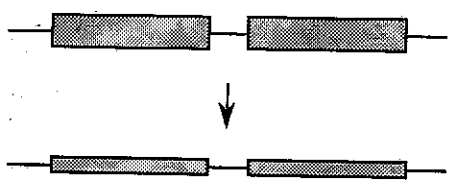
ELECTRICAL ADJUSTMENT

Step	Adjustment position	Adjustment condition	Adjustment procedure
1	**VCO Oscillation L1601 (control unit)**	1. Receive the NTSC monoscope pattern signal. 2. Push S1601.	• Adjust L1601 so that the image be in horizontal sync on the screen. Then release the switch.
2	**Horizontal Center R1628**	1. Receive the NTSC monoscope pattern signal.	• Adjust R1628 so that the image be symmetrical about the vertical center on the screen.
3	**Scan Converter Oscillation L4101 (scan converter)**	1. Make a short-circuit between TP4101 and GND. 2. Connect the frequency counter between TP4102 and GND.	• Adjust L4101 so that the frequency counter should read 15.625 ± 0.01 kHz.
4	**Sub DC**	1. Receive the NTSC colour bar signal. 2. Push S2002 to call up the following mode. Group: VIDEO 1 Subject: SUB-DC 3. Connect the oscilloscope between pin (16) of IC801 (R-OUT) and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the level between the black portion and pedestal to 0.32 ± 0.05 Vp-p. 
5	**Tint**	1. Receive the NTSC colour bar signal. 2. Push S2002 to call up the following mode. Group : VIDEO 1 Subject : TINT 3. Connect the oscilloscope between pin (6) of P800 [B-Y pin (41) of IC801] and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the B-Y waveform so that its cyan and magenta portions be along a straight line. 

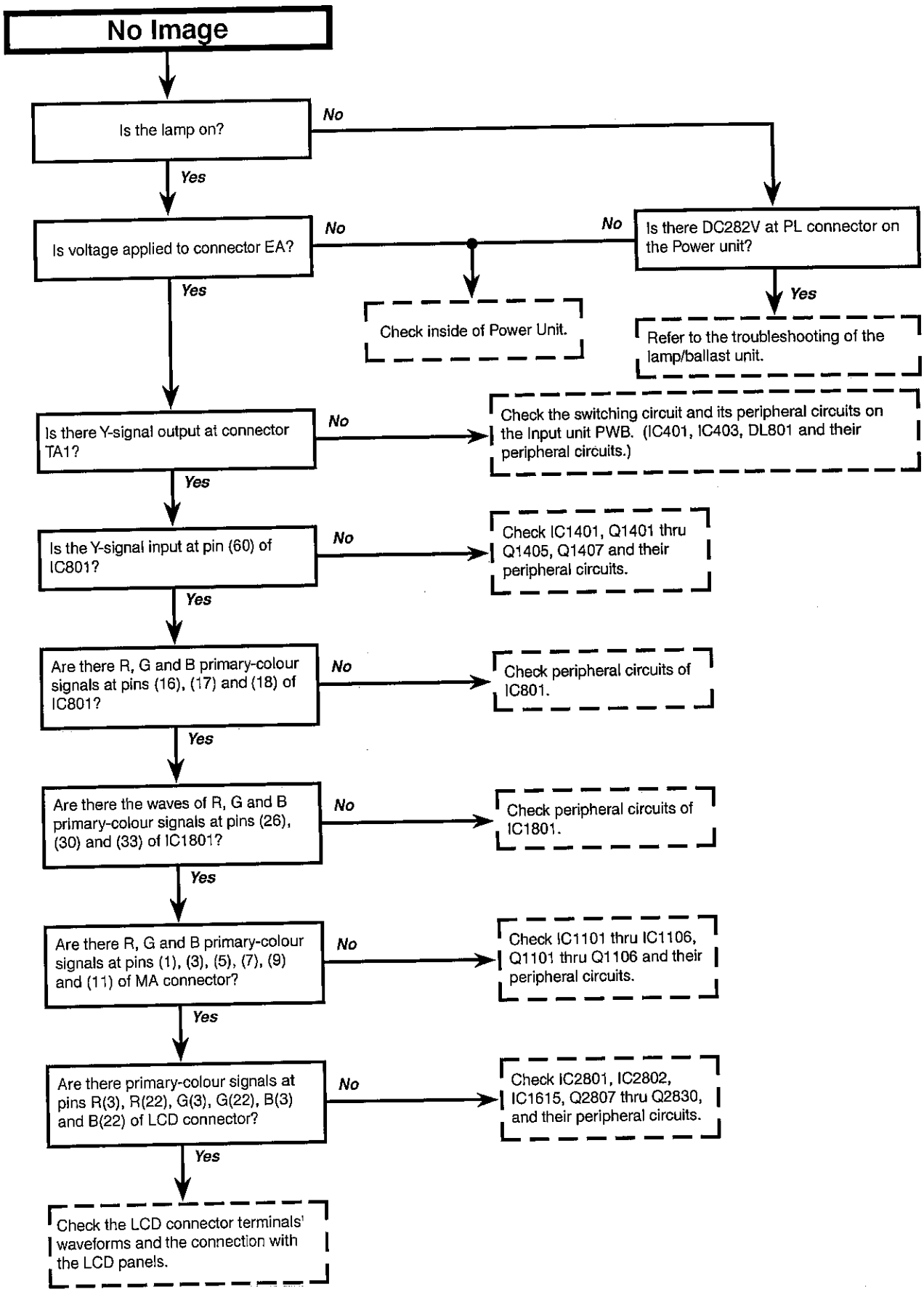
Step	Adjustment position	Adjustment condition	Adjustment procedure
6	**Colour**	1. Receive the NTSC colour bar signal. 2. Push S2002 to call up the following mode. Group : VIDEO 1 Subject : COLOR 3. Connect the oscilloscope between pin (16) of IC801 and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the primary red output level to the 75% white level. 
7	**AGC R1212**	1. Receive the NTSC colour bar signal. 2. Connect the oscilloscope between pin (16) of IC801 and GND.	• Adjust R1212 so that the level between the white and black portions be 3.0 ± 0.05 Vp-p. 
8	**Brightness**	1. Receive the 10-step gray scale signal. 2. Push S2002 to call up the following mode. Group : VIDEO 1 Subject : BRIGHT 3. Connect the oscilloscope between pin (5) of SC1101 and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the black (0 on the scale) level to DC –5.0 ± 0.05 Vp-p. 
9	**Picture**	1. Receive the 10-step gray scale signal. 2. Push S2002 to call up the following mode. Group : VIDEO 1 Subject : PICTURE 3. Connect the oscilloscope between pin (5) of SC1101 and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the level between the white and black portions to 3.3 ± 0.05 Vp-p. 

Step	Adjustment position	Adjustment condition	Adjustment procedure
10	**Bias** **R-BIAS** **B-BIAS**	1. Receive the 10-step gray scale signal. 2. Turn R1505 all the way clockwise. 3. Push S2002 to call up the following mode. Group : VIDEO 2 Subject : R-BIAS (B-BIAS) 4. Connect the oscilloscope's CH1 between pin (5) of SC1101 and GND. 5. Connect the oscilloscope's CH2 between pin (6) of SC1101 [pin (4) of SC1101] and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the DC level at 0 on the scale as specified below. 
11	**Drive** **R-DRIVE** **B-DRIVE**	1. Receive the 10-step gray scale signal. 2. Turn R1505 all the way clockwise. 3. Push S2002 to call up the following mode. Group: VIDEO 1 Subject: PICTURE 4. Connect the oscilloscope's CH1 between pin (5) of SC1101 and GND. 5. Connect the oscilloscope's CH2 between pin (6) of SC1101 [pin (4) of SC1101] and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, get the same waveforms. 
12	**Gamma Correction** **R1144** **R1150**	1. Receive the 10-step gray scale signal. 2. Connect the DC voltmeter between pin (2) of SC1101 and GND. (Keep R1144 at the center position.) 3. Connect the DC voltmeter between pin (1) of SC1101 and GND. (Keep R1150 at the center position.)	• Adjust R1144 so that the voltmeter should read –4.3 ± 0.05 V. • Adjust R1150 so that the voltmeter should read –3.7 ± 0.05 V.
13	**White-to-White Level** **R1165**	1. Receive the 10-step gray scale signal. 2. Connect the oscilloscope between pin (4) (G-OUT) of P1605 and GND.	• Adjust R1165 so that the level between the white portions be 2.0 ± 0.05 Vp-p. 

Step	Adjustment position	Adjustment condition	Adjustment procedure
14	**PAL Sub-contrast**	1. Receive the 10-step gray scale signal. 2. Push S2002 to call up the following mode. Group: VIDEO 3 Subject: PAL-SUB-C 3. Connect the oscilloscope between pin (5) of SC1101 and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the level between the white and black portions be 3.3 ± 0.05 Vp-p. 
15	**SECAM R-Y**	1. Receive the SECAM colour bar signal. 2. Push S2002 to call up the following mode. Group: VIDEO 3 Subject: SECAM R-Y 3. Connect the oscilloscope between TP801 and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, get the same DC levels.  To be at the same level
16	**SECAM B-Y**	1. Receive the SECAM colour bar signal. 2. Push S2002 to call up the following mode. Group: VIDEO 3 Subject: SECAM B-Y 3. Connect the oscilloscope between TP802 and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, get the same DC levels.  To be at the same level
17	**SECAM Amplitude**	1. Receive the SECAM colour bar signal. 2. Push S2002 to call up the following mode. Group: VIDEO 3 Subject: SCM-AMP 3. Connect the oscilloscope between TP801 and GND.	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, get close to the 75% white level.  75% white To be close to 75% white level
18	**PAL Horizontal Center**	1. Receive the PAL monoscope signal. 2. Push S2002 to call up the following mode. Group: VIDEO 3 Subject: PAL-H	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the right and left overscans to the same.

Step	Adjustment position	Adjustment condition	Adjustment procedure
19	**White Balance (R) R1162**	1. Receive the PAL monoscope signal. 2. Connect the oscilloscope's CH1 between pin (4) (G-OUT) of P1605 and GND, and its CH2 between pin (2) (R-OUT) of P1605 and GND. Invert the CH2 waveform and add the CH1 and CH2 waveforms.	• Adjust R1162 so that the waveforms be minimum. 
20	**White Balance (B) R1159**	1. Receive the PAL monoscope signal. 2. Connect the oscilloscope's CH1 between pin (4) (G-OUT) of P1605 and GND, and its CH2 between pin (6) (B-OUT) of P1605 and GND. Invert the CH2 waveform and add the CH1 and CH2 waveforms. 3. Make a short-circuit between pins (1) and (2) of TP3 to keep the horizontal saw-tooth modulation circuit out of operation.	• Adjust R1159 so that the waveforms be minimum. 
21	**Colour Shade between Right and Left R1505**	1. Receive the PAL monoscope signal.	• Adjust R1505 so that the colour shading between the right and left halves be minimum. • Invert the right and left each other and make sure the colour shading problem is minimum.
22	**Common Bias R, G, B R1678 (R) R1673 (G) R1664 (B)**	1. Receive the NTSC monoscope signal. 2. Push S2002 to call up the following mode. Group: VIDEO 2 Subject: CB-R, CB-G, CB-B	• On the CB-R subject, adjust R1678 to have the sharpest contrast. • On the CB-G subject, adjust R1673 to have the sharpest contrast. • On the CB-B subject, adjust R1664 to have the sharpest contrast.
23	**White Balance (fine adjustment)**	1. Take the same steps as 19 and 20.	• Visually check the white balance. Readjust it as required.
24	**Masking**	1. Receive the NTSC monoscope signal. 2. Push S2002 to call up the following mode. Group: MASK Subject: TOP, BOTTOM	• Using the VIDEO ADJUSTMENT +/- keys on the membrane switch, adjust the top and bottom overscans to 95%.
25	**Sign Display Position T2001**	1. Receive the NTSC monoscope signal.	• Adjust T2001 so that the focus sign be at the center of the screen. • Make sure the characters "FOCUS" are in alignment with the horizontal resolution line.

TROUBLE SHOOTING TABLE


No Image
Is the lamp on?
No
Yes
Is voltage applied to connector EA?
No
No
Is there DC282V at PL connector on the Power unit?
Yes
Check inside of Power Unit.
Refer to the troubleshooting of the lamp/ballast unit.
Yes
Is there Y-signal output at connector TA1?
No
Check the switching circuit and its peripheral circuits on the Input unit PWB. (IC401, IC403, DL801 and their peripheral circuits.)
Yes
Is the Y-signal input at pin (60) of IC801?
No
Check IC1401, Q1401 thru Q1405, Q1407 and their peripheral circuits.
Yes
Are there R, G and B primary-colour signals at pins (16), (17) and (18) of IC801?
No
Check peripheral circuits of IC801.
Yes
Are there the waves of R, G and B primary-colour signals at pins (26), (30) and (33) of IC1801?
No
Check peripheral circuits of IC1801.
Yes
Are there R, G and B primary-colour signals at pins (1), (3), (5), (7), (9) and (11) of MA connector?
No
Check IC1101 thru IC1106, Q1101 thru Q1106 and their peripheral circuits.
Yes
Are there primary-colour signals at pins R(3), R(22), G(3), G(22), B(3) and B(22) of LCD connector?
No
Check IC2801, IC2802, IC1615, Q2807 thru Q2830, and their peripheral circuits.
Yes
Check the LCD connector terminals' waveforms and the connection with the LCD panels.

TROUBLE SHOOTING TABLE (Continued)

No Synchronization

Is there video signal at the emitter of Q604?

No → Check IC607, Q601 thru Q604, Q608, Q609 and their peripheral circuits.

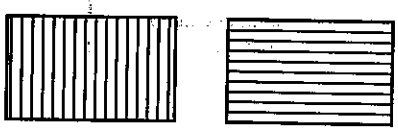
Yes

Are there V sync and H sync outputs at pins (64) and (6) of IC801, respectively? Are these signals in sync (locked) with the input signal at pin (60)?

No → Check IC801 and its peripheral circuits.

Yes

Which is out of synch, horizontal or vertical?



Horizontal Vertical

Vertical

Horizontal

Is there horizontal sync signal input at pin (43) of IC1601?

No → Check IC605, IC606 and their peripheral circuits.

Yes

Are the signals at pins (43) and (11) of IC1601 in sync (locked) with each other?

No → Check IC1601, IC1604 and their peripheral circuits.

Yes

Check the cable connections and performance of the LCD panels.

Is there vertical sync signal input at pin (45) of IC1601?

No → Check connector MB and its peripheral circuits.

Yes

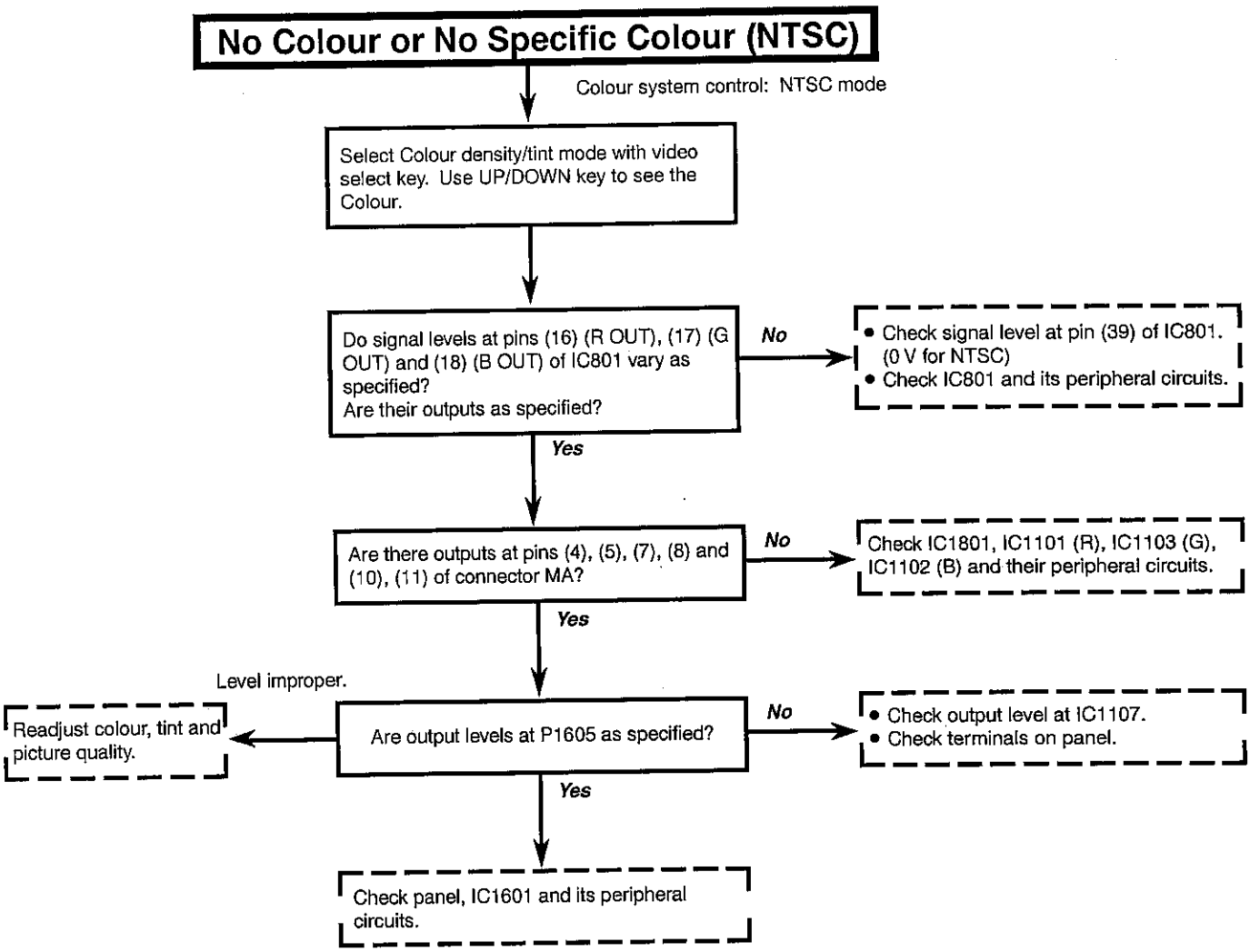
Are signals at pins (12) and (45) of IC1601 in sync with each other?

No → Check IC1601, IC1604 and their peripheral circuits.

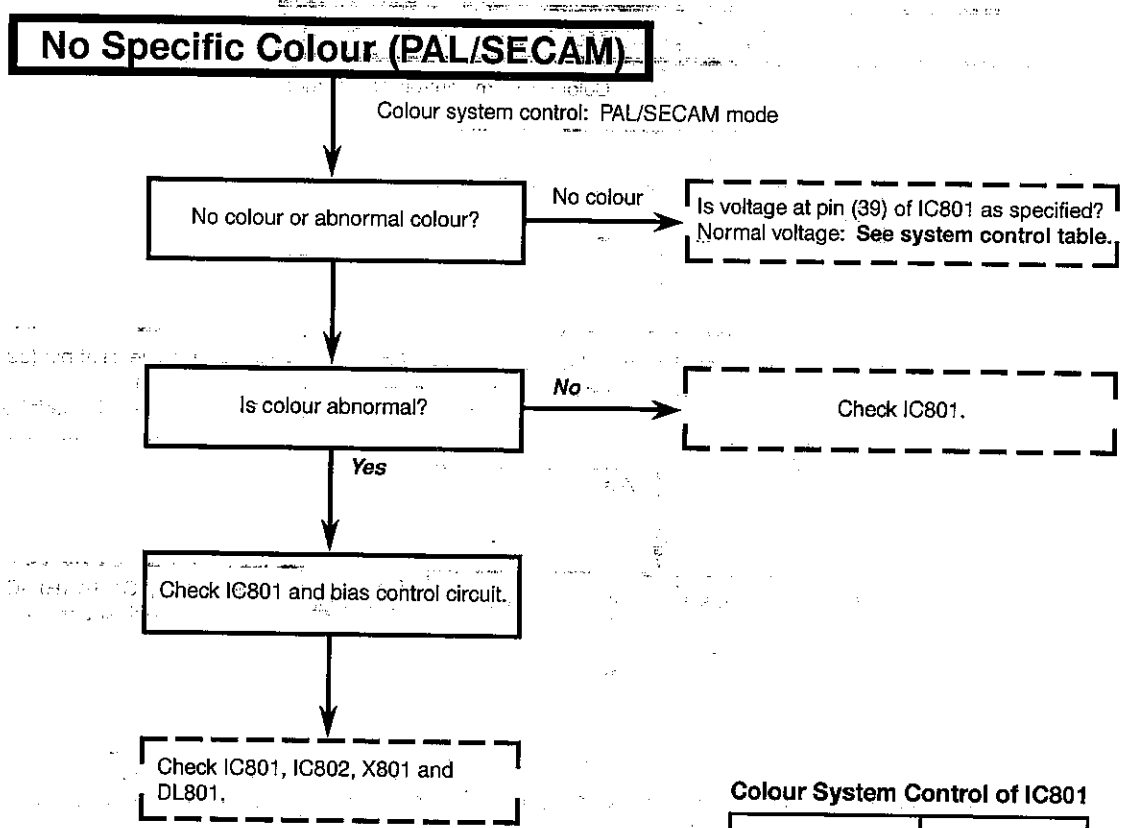
Yes

Check the cable connections and performance of the LCD panels.

TROUBLE SHOOTING TABLE (Continued)


No Colour or No Specific Colour (NTSC)
Colour system control: NTSC mode
Select Colour density/tint mode with video select key. Use UP/DOWN key to see the Colour.
Do signal levels at pins (16) (R OUT), (17) (G OUT) and (18) (B OUT) of IC801 vary as specified?
Are their outputs as specified?
No
• Check signal level at pin (39) of IC801. (0 V for NTSC)
• Check IC801 and its peripheral circuits.
Yes
Are there outputs at pins (4), (5), (7), (8) and (10), (11) of connector MA?
No
Check IC1801, IC1101 (R), IC1103 (G), IC1102 (B) and their peripheral circuits.
Yes
Level improper.
Readjust colour, tint and picture quality.
Are output levels at P1605 as specified?
No
• Check output level at IC1107.
• Check terminals on panel.
Yes
Check panel, IC1601 and its peripheral circuits.

TROUBLE SHOOTING TABLE (Continued)

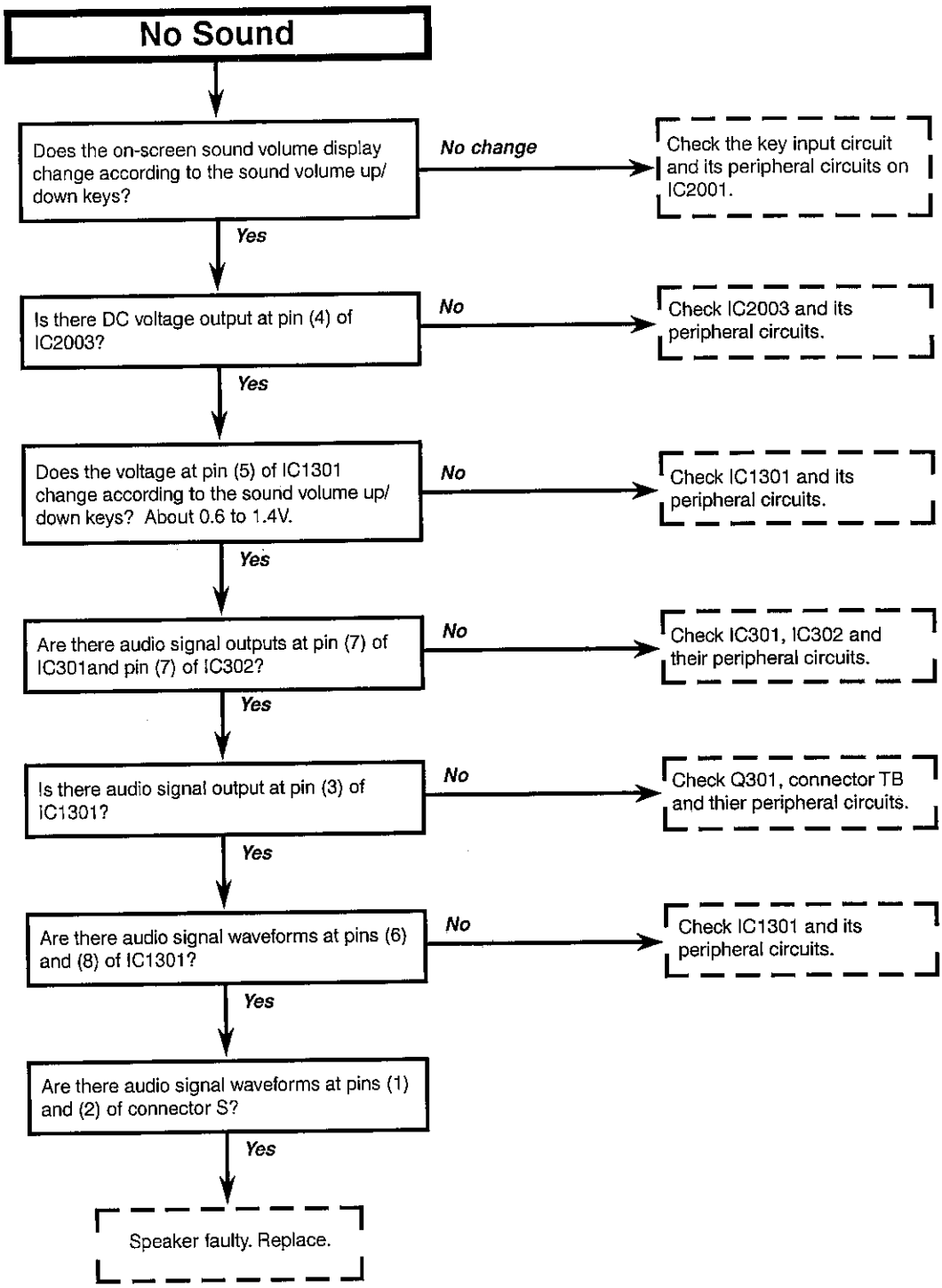

No Specific Colour (PAL/SECAM)
Colour system control: PAL/SECAM mode
No colour or abnormal colour?
No colour
Is voltage at pin (39) of IC801 as specified?
Normal voltage: See system control table.
Is colour abnormal?
No
Check IC801.
Yes
Check IC801 and bias control circuit.
Check IC801, IC802, X801 and DL801.

Colour System Control of IC801

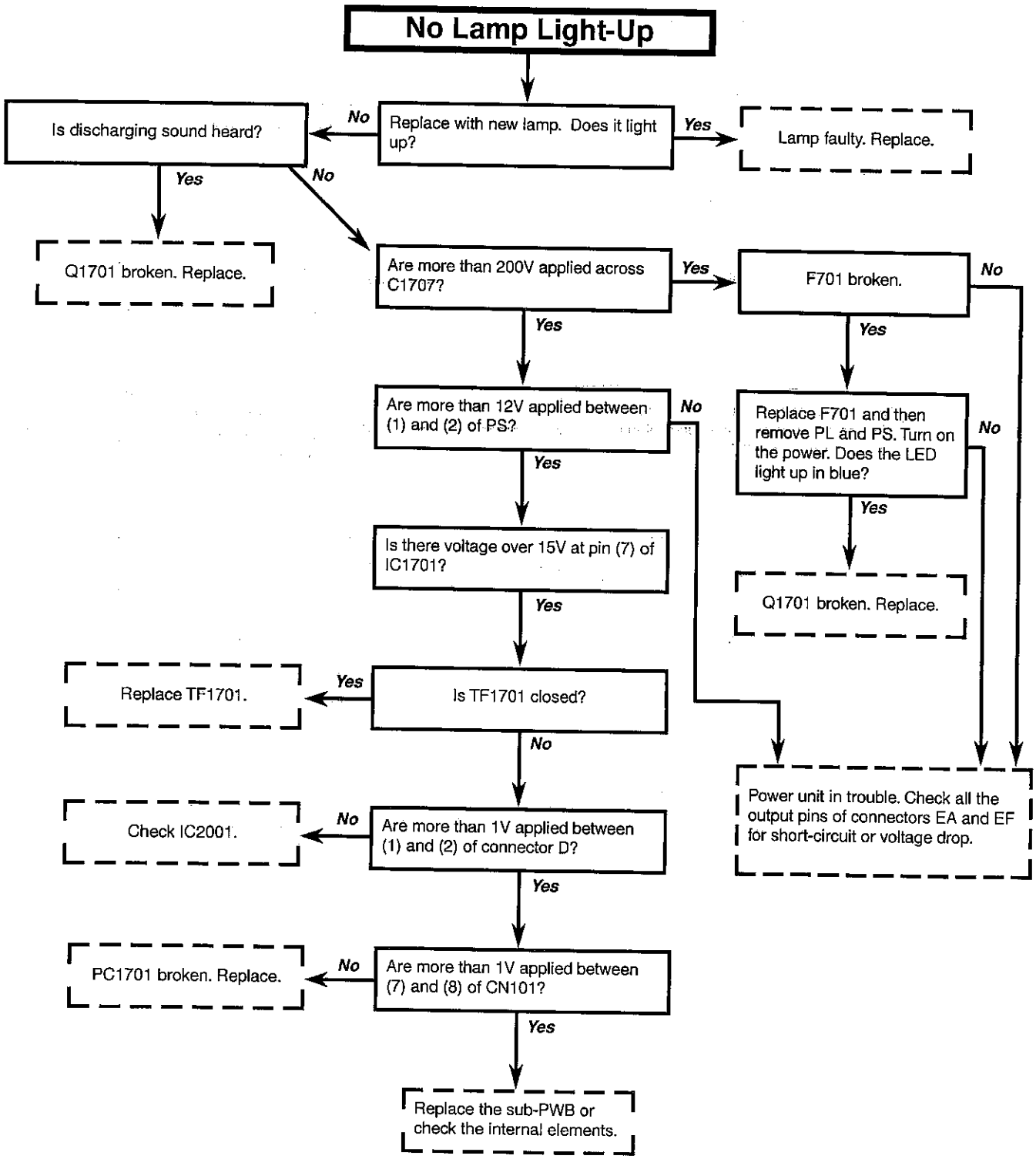
Colour system	Pin (39)
PAL	H
NTSC	M
SECAM	L

H: 8.3 V M: 4.6 V L: 0.1 V

TROUBLE SHOOTING TABLE (Continued)


No Sound
Does the on-screen sound volume display change according to the sound volume up/ down keys?
No change
Check the key input circuit and its peripheral circuits on IC2001.
Yes
Is there DC voltage output at pin (4) of IC2003?
No
Check IC2003 and its peripheral circuits.
Yes
Does the voltage at pin (5) of IC1301 change according to the sound volume up/ down keys? About 0.6 to 1.4V.
No
Check IC1301 and its peripheral circuits.
Yes
Are there audio signal outputs at pin (7) of IC301and pin (7) of IC302?
No
Check IC301, IC302 and their peripheral circuits.
Yes
Is there audio signal output at pin (3) of IC1301?
No
Check Q301, connector TB and thier peripheral circuits.
Yes
Are there audio signal waveforms at pins (6) and (8) of IC1301?
No
Check IC1301 and its peripheral circuits.
Yes
Are there audio signal waveforms at pins (1) and (2) of connector S?
Yes
Speaker faulty. Replace.

TROUBLE SHOOTING TABLE (Continued)


No Lamp Light-Up
Replace with new lamp. Does it light up?
No
Yes
Lamp faulty. Replace.
Is discharging sound heard?
No
Yes
Q1701 broken. Replace.
Are more than 200V applied across C1707?
Yes
F701 broken.
No
Yes
Yes
Are more than 12V applied between (1) and (2) of PS?
No
Yes
Replace F701 and then remove PL and PS. Turn on the power. Does the LED light up in blue?
No
Yes
Q1701 broken. Replace.
Is there voltage over 15V at pin (7) of IC1701?
Yes
Replace TF1701.
Yes
Is TF1701 closed?
No
Power unit in trouble. Check all the output pins of connectors EA and EF for short-circuit or voltage drop.
Check IC2001.
No
Are more than 1V applied between (1) and (2) of connector D?
Yes
PC1701 broken. Replace.
No
Are more than 1V applied between (7) and (8) of CN101?
Yes
Replace the sub-PWB or check the internal elements.

TECHNISCHE DATEN

Produkttyp		LCD-Projektor
Model		XV-380H
Videosystem		PAL-/SECAM-/NTSC 3.58-/NTSC 4.43-System
Wiedergabeverfahren		3 LCD-Projektionspanele, dreifarbiges optisches Verschlußverfahren
LCD-Projektionspanele	Panelgröße	3,0 Zoll (4,5 cm (H) × 6,2 cm (B))
	Wiedergabeverfahren	Durchlässige TN-Flüssigkristall-Panele
	Treiberverfahren	TFT (Dünnfilmtransistor) Aktivmatrix-Treiberverfahren
	Anzahl der Bildpunkte	309.120 Bildpunkte × 3 Panele
Objektiv		1 - 1,6 Zoomobjektiv, F=3,6 - 4,6 f=105 mm - 168 mm
Projektionslampe		250 W Metallhalogen-Entladungslampe
Kontrastverhältnis		100:1
Videoeingangssignal (FBAS)		RCA-Anschluß: VIDEO, Composite Video, 1 Vs-s, negatives Sync.-Signal, 75 Ω terminiert RCA-Anschluß: AUDIO, 142 mVrms, mehr als 47 kΩ (Stereo)
S-Videoeingangssignal		4-pol. Mini-DIN-Steckanschluß Y (Luminanz-Signal): 1 Vs-s, negatives Sync.-Signal, 75 Ω terminiert C (Chrominanz-Signal): Farbsynchronimpuls 0,286 Vs-s, 75 Ω terminiert
Videoausgangssignal (Monitor)		RCA-Anschluß: VIDEO, Composite Video, 1 Vs-s, negatives Sync.-Signal, 75 Ω terminiert RCA-Anschluß: AUDIO, 142 mVrms, mehr als 47 kΩ (Stereo)
Horizontale Auflösung		500 Fernsehzeilen (Videoeingang)
Audioausgang		3 W (monaural)
Lautsprecher		3 Zoll (8 cm), rund
Nennspannung		200 - 240 V Wechselstrom
Nennfrequenz		50/60 Hz
Nennaufnahme		335 W
Standby-Stromverbrauch		4,3 W
Betriebstemperatur		5°C - 40°C
Lagertemperatur		-20°C - 55°C
Gehäuse		Kunststoff
Abmessungen (B x T x H)		500 × 447 × 201 mm (nur Projektor) 500 × 520 × 201 mm (einschl. Anschluß-Abdeckung)
Gewicht		12,1 kg (nur Projektor) 12,4 kg (einschl. Anschluß-Abdeckung)
Mitgeliefertes Zubehör		Fernbedienung, twei AAA-Batterien, Objektivkappe (installiert), Display-Aufkleber für umgekehrte Installation, Ersatz-Luftfilter, Anschluß-Abdeckung, AV-Kabel, 21-Stifte-RCA-Umkehradapter
Sonderzubehör		Fernbedienung (RRMCG1310CESA), Luftfilter (PFILD0030CEZZ), AV-Kavel (QCNW-3740CEZZ), 21-Stifte-RCA-Umkehradapter (QSOCZ0305CEZZ)

Dieser Projektor ist mit LCD (Flüssigkristallanzeige)-Projektionspanelen ausgestattet. Diese neuartigen Projektionspanele enthalten TFT's (Dünnfilm-Transistoren) mit insgesamt 309.120 Bildpunkten (xRGB). Bei allen technologisch fortschrittlichen elektronischen Geräten, z.B. Großbild-Fernsehern, Videosystemen oder Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben.
Die von Sharp akzeptierte Toleranzgrenze erlaubt insgesamt sechs (6) inaktive TFTs (einschließlich schwarzer Flecken), die als beleuchtete Punkte auf der Bildwand wiedergegeben werden.
Dies hat keinen Einfluß auf die Bildqualität und die Lebenserwartung des Gerätes.

*Änderungen der technischen Daten vorbehalten.

HINWEISE FÜR DEN WARTUNGSTEHNIKER

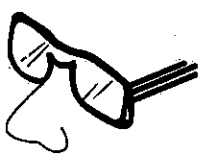
VORSICHTSMASSNAHMEN BEI UV-STRAHLUNG

Die Lichtquelle (Metallhalogenidlampe) im LCD-Projektor erzeugt geringe Anteile von UV-Strahlung.

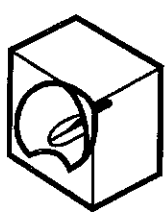
DIREKTEN AUGEN-UND HAUTKONTAKT VERMEDIEN.

Folgende Sicherheitshinweise sind zu befolgen:

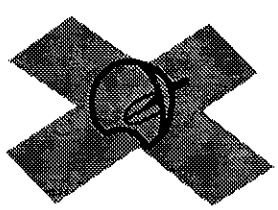
1. Bei der Wartung des Geräts muß bei eingeschalteter Lampe eine Sonnenschutzbrille getragen werdne. Der obere Deckel ist bei der Wartung zu enyfernen.



2. Die Lampe darf nicht außerhalb des Lampengehäuses verwendet werden.



3. Bei entferntem oberen Deckel nicht läanger als 2 Stunden betreiben.



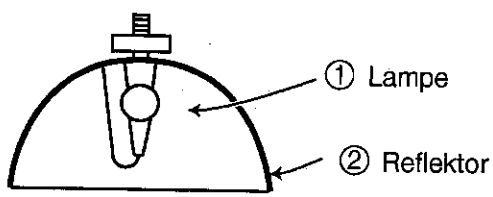
Vorsichtsmaßnahmen bezüglich UV-Strahlung und Mitteldrucklampen

1. Vor dem Auswechseln der Lampe unbedingt den Netzstecker ziehen.
2. Das Gerät vor dem Durchführen von Wartungsarbeiten eine Stunde abkühlen lassen.
3. Nur gegen eine Lampe der gleichen Sorte auswechseln. Sorte CLMPF0031DE01, 65V/250W.
4. Da die Lampe eine geringe UV-Strahlung aufweiat, sollte direkter Blickkontakt vermieden werden.
5. Die Mitteldrucklampe weist ein Explosionsrisiko auf. Die nachstehenden Einbauanweisungen beachten und die Lampe vorsichtig handhaben.

■ Auswechseln der Lampe

Hinweis:

Da die Lampe während des Betriebs extrem heiß wird, solltdas Auswechseln erst eine Stunde nach dem Ausschalten stattfinden (abkühlzeit).
Beim Anbringen der neuen Lampe die Birne unbedingt nicht berühen. Den Reflektor ② der Lampe beim Auswechseln halten.
[Nur das Original-Ersatzteil verwenden.]



GEFAHR! — Niemals die Spannungsversorgung ohne Lampe einschalten, um elektrische Schläge und Schäden des Gerätes zu vermeiden, da der Stabilisator beim Einschalten hohe Spannungen erzeugt.

Da aus einer Öffnung zwischen der Schachtabdeckung und dem Lampengehäuse geringe Mengen von UV-Strahlung abgegeben werden, wird empfohlen, daß der OBJEKTIVDECKEL während der Wartung auf diese Öffnung gesetzt wird, um dadurch Augen- oder Hautkontakt zu vermeiden (Abb. 1).

Hinweis: Bitte besorgen Sie sich den objektivdeckel des zu wartenden Modells XV-380H, falls dieses ohne Deckel geliefert wurde.

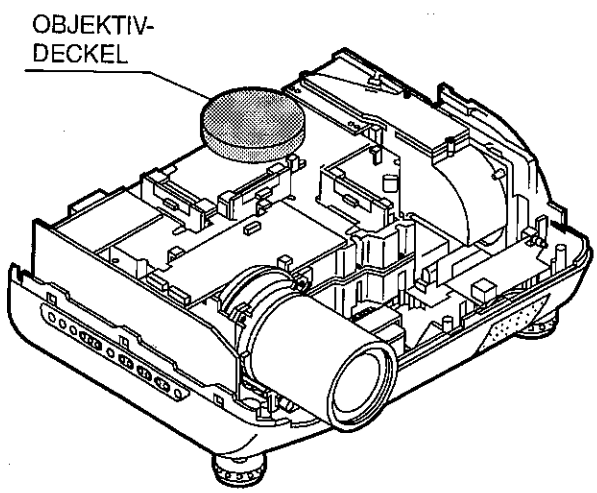
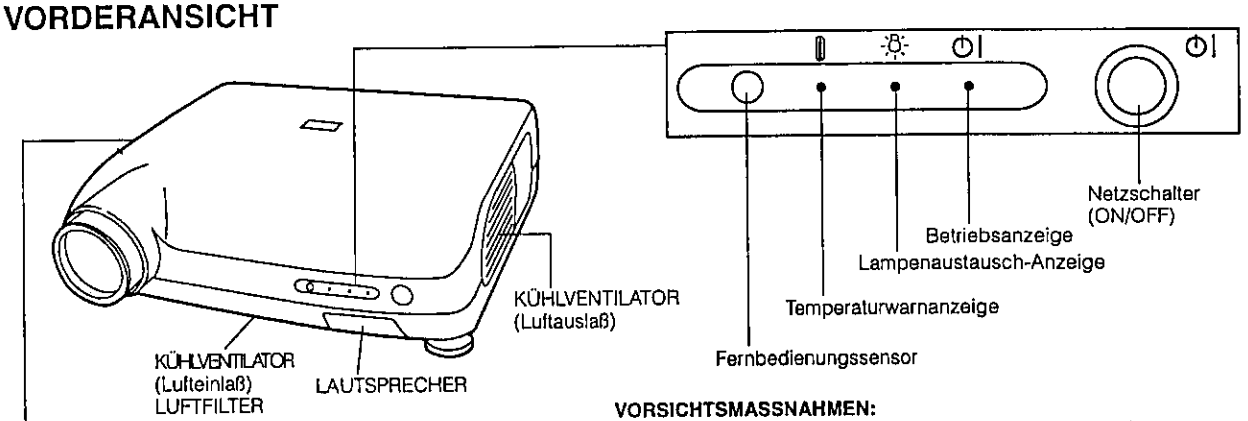


Abbildung 1.

Lage der Bedienelemente

VORDERANSICHT

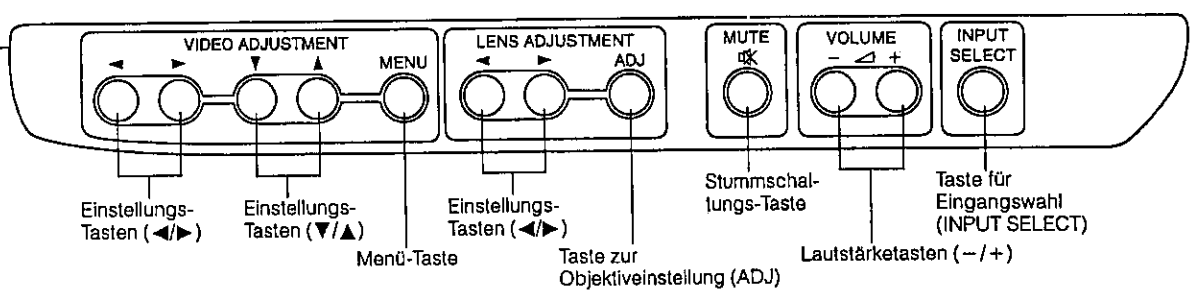


VORSICHTSMASSNAHMEN:

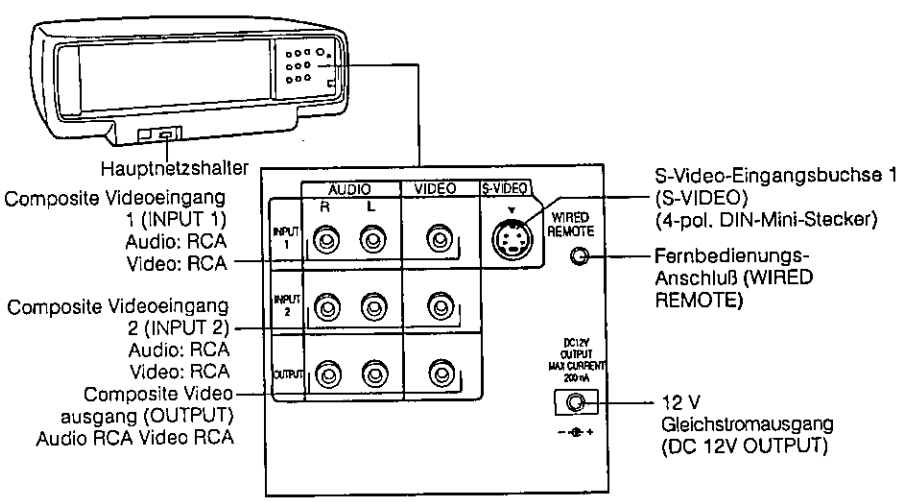
- Es sollte mindestens ein Abstand von 10 cm zwischen dem Kühlventilator (Luftaustritt) und der Wand bestehen.
- Wenn der Kühlventilator versperrt wird, schaltet ein Schutzmechanismus automatisch die Projektorlampe aus. Dies zeigt keine Fehlfunktion an. Den Netzstecker des Projektors von der Steckdose abtrennen und 10 Minuten lang warten. Durch den Anschluß des Netzkabels an die Steckdose wird das Gerät wieder eingeschaltet und der Projektor ist wieder auf die normale Betriebsart zurückgestellt.

BEDIENFELD AUF DER SEITE DES PROJEKTORS

Leuchtstoff-Display
Zur Verbesserung der Ablesbarkeit sind die auf der rechten Seite befindlichen Bedienelemente mit einem Leuchtstoff-Display ausgestattet, das nach Einwirkung des Umgebungslichts im Dunkeln nachleuchtet.
(Nachleuchtstärke)
Nach ca. 10 Min. unter Sonnen- oder Kunstlicht mit 500 Lux Lichtstärke leuchtet das Display etwa 1 Stunde nach.
(**Hinweis:**500 Lux entspricht der Lichtstärke in ca. 1 - 1,5 Meter Abstand unter einer 40-Watt-Leuchtstoffröhre)



RÜCKSEITE

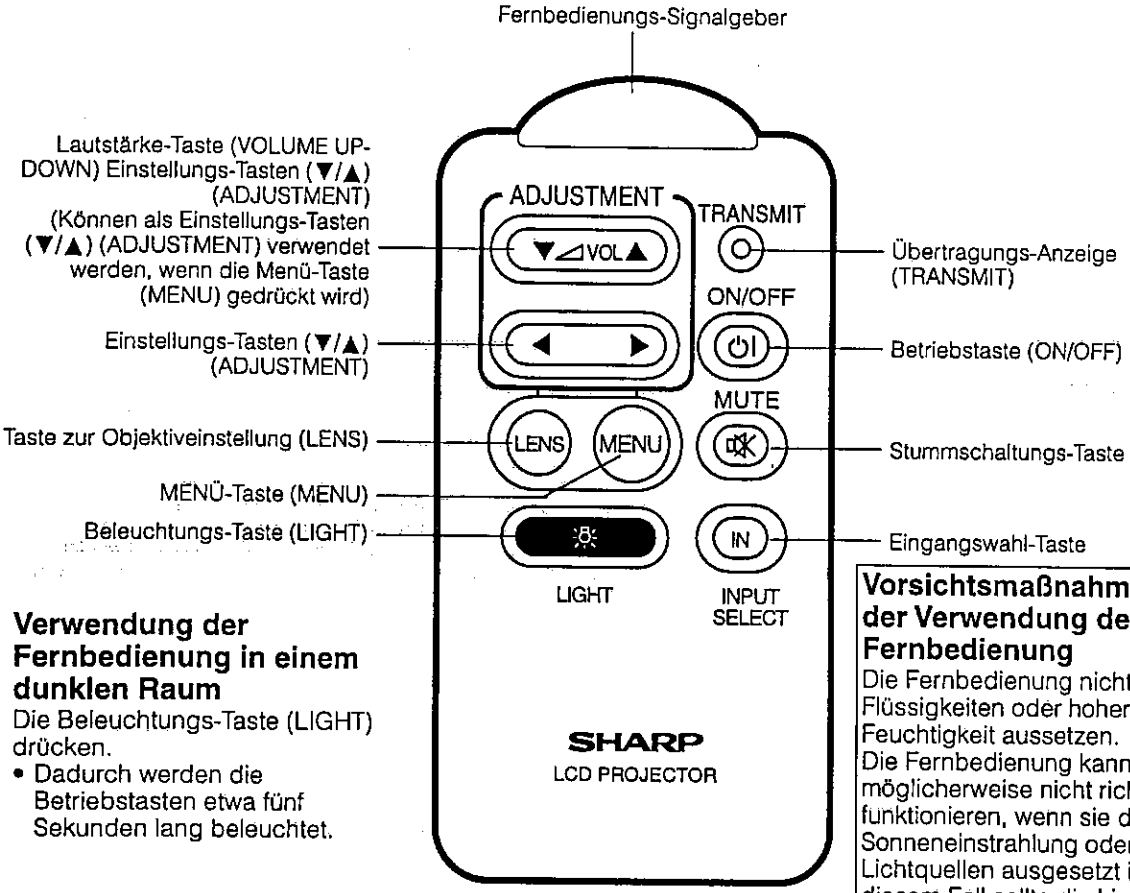


Hinweis:

- Wenn 200 mA oder mehr am 12 V Gleichstromausgang (DC 12V OUTPUT) abgenommen wird, schaltet eine Schutzschaltung automatisch den Projektor aus und stellt ihn auf die Bereitschafts-Betriebsart ein.

Fernbedienter Betrieb

FERNBEDIENUNG



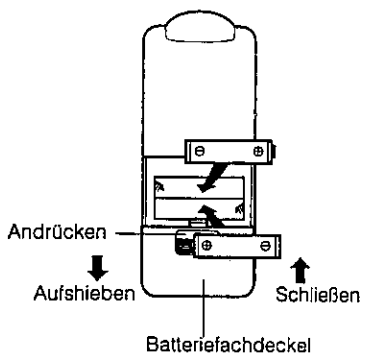
Verwendung der Fernbedienung in einem dunklen Raum

Die Beleuchtungs-Taste (LIGHT) drücken.

- Dadurch werden die Betriebstasten etwa fünf Sekunden lang beleuchtet.

Vorsichtsmaßnahmen bei der Verwendung der Fernbedienung

Die Fernbedienung nicht Stößen, Flüssigkeiten oder hoher Feuchtigkeit aussetzen.
Die Fernbedienung kann möglicherweise nicht richtig funktionieren, wenn sie direkter Sonneneinstrahlung oder starken Lichtquellen ausgesetzt ist. In diesem Fall sollte die Lichtquelle oder der LCD-Projektor verschoben werden.



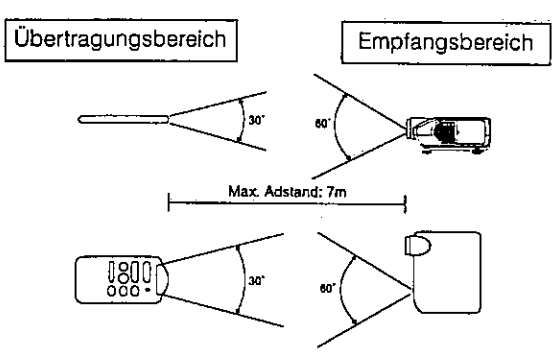
Einsetzen der Batterien

Die Batteriefachabdeckung wie gezeigt entfernen, twei Batterien (Größe AAA) einsetzen und sicherstellen, daß die Polarität den Markierungen (+) und (–) im Batteriefach entspricht.

HINWEISE:

Eine falsche Verwendung kann die Batterien zum Auslaufen oder Explodieren bringen.

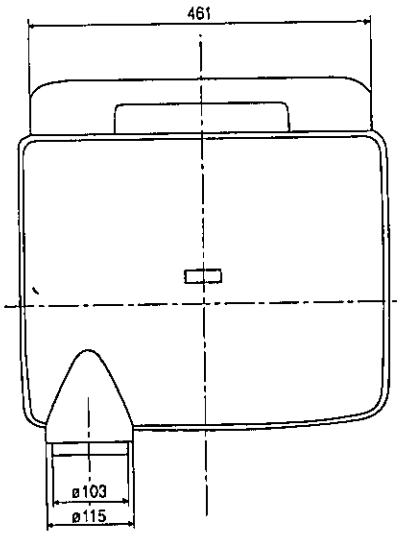
- Die Batterien unter Beachtung der (+) und (–) Pole wie gezeigt richtig einsetzen.
- Die Batterien aus der Fernbedienung entnehmen, wenn sie für längere Zeit nicht verwendet wird.
- Die Batterien immer sauber halten.
- Unterschiedliche Batteriearten nicht zusammen verwenden. Die Lebensdauer der neuen Batterien wird dadurch verkürzt und die alten Batterien können auslaufen.
- Verbrauchte Batterien sollten sofort entnommen werden, um Auslaufen und Beschädigungen zu vermeiden. Ausgelaufene Batterieflüssigkeit kann zu Hautirritationen führen. Ausgelaufene Batterieflüssigkeit mit einem Tuch entfernen.
- Wegen unterschiedlicher Lagerbedingungen können die mitgelieferten Batterien früher als angegeben verbraucht sein. Verbrauchte Batterien sollten so schnell wie möglich durch neue ausgetauscht werden.



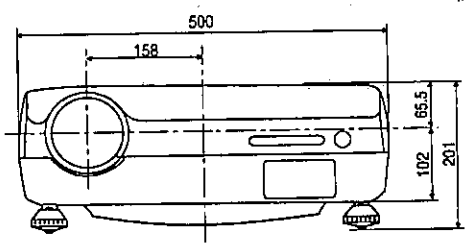
Verwendung der Fernbedienung

Die Fernbedienung wie gezeigt verwenden.

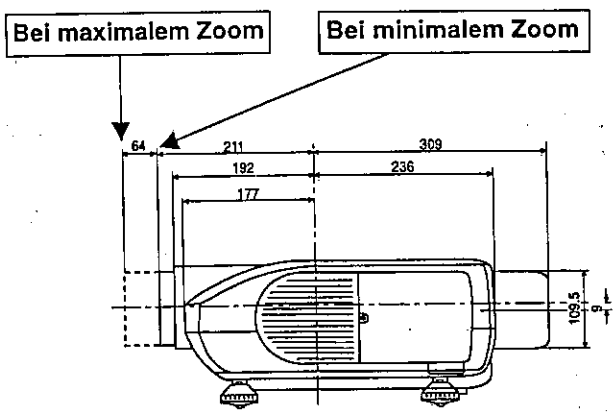
Abmessungen



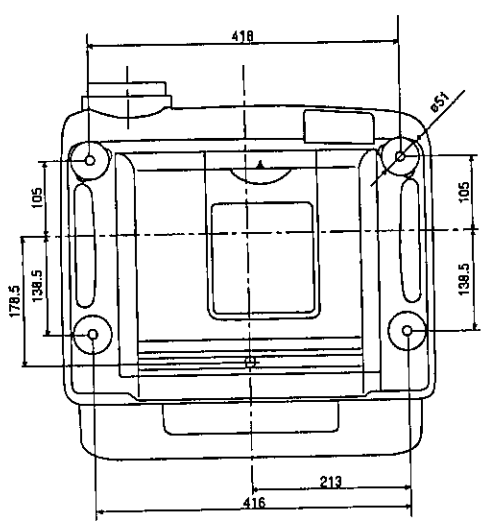
Ansicht von oben



Ansicht von vorne



Seitenansicht



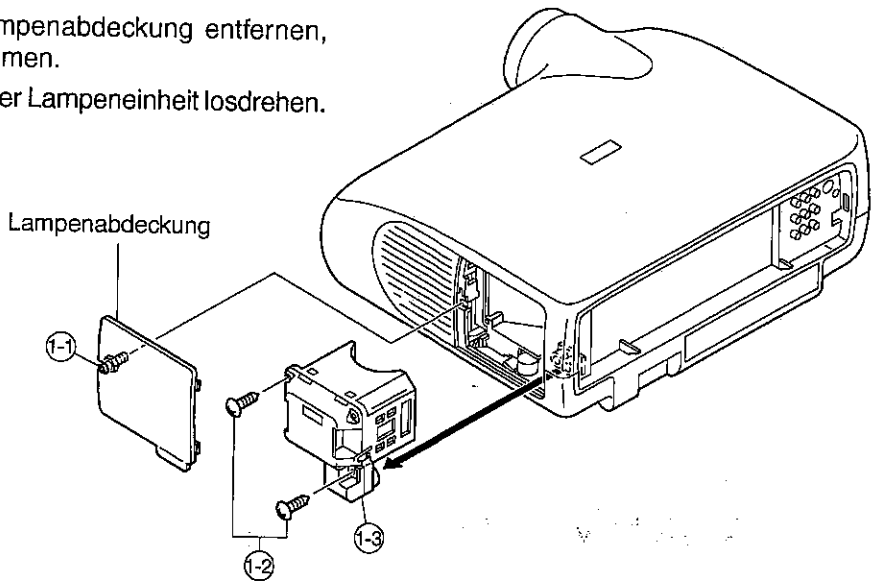
Ansicht von unten

[Einheit: mm]

ENTFERNEN DER HAUPTTEILE

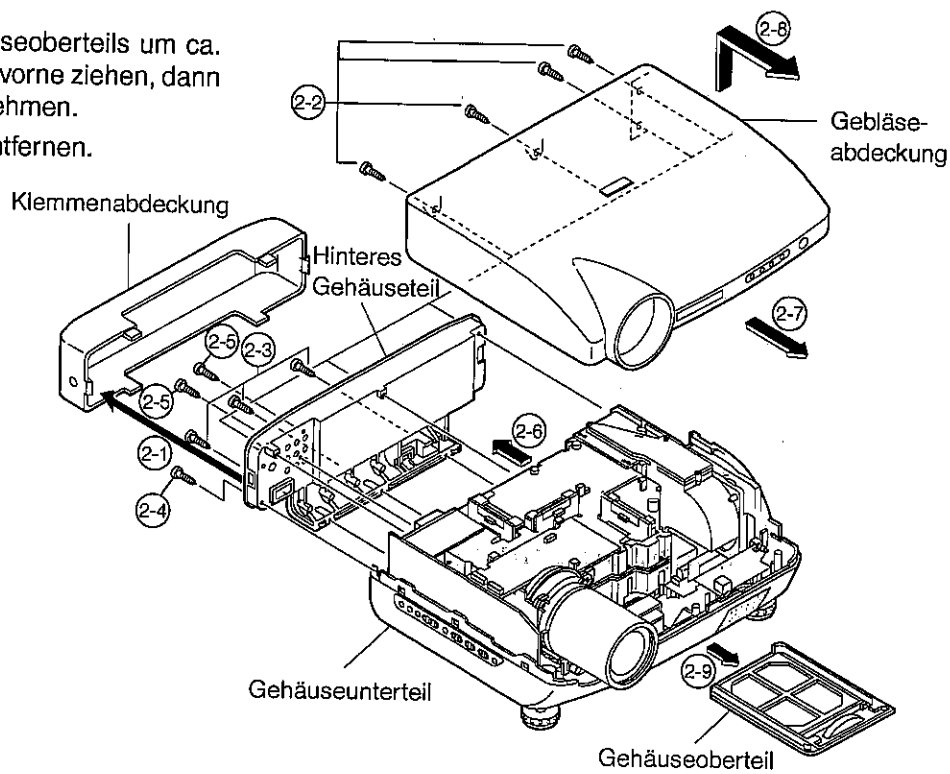
1. Entfernen der Lampeneinheit

1-1. Die Schraube von der Lampenabdeckung entfernen, dann die Abdeckung abnehmen.
1-2. Die beiden Schrauben von der Lampeneinheit losdrehen.
1-3. Die Lampe herausnehmen.



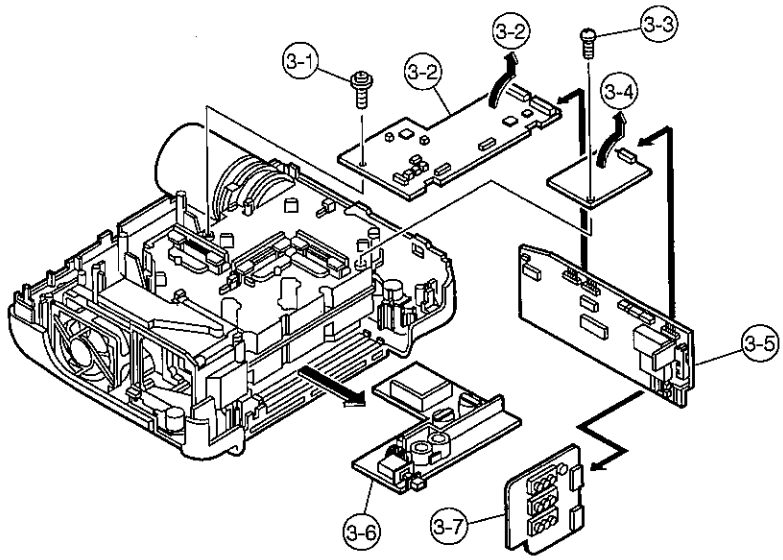
2. Entfernen der oberen und hinteren Gehäuseteile sowie der Gebläseabdeckung

2-1. Die Laschen an beiden Seiten der Klemmenabdeckung lösen, dann die Abdeckung abnehmen.
2-2. Die vier Halteschrauben des oberen Gehäuses entfernen.
2-3. Die drei Halteschrauben des hinteren Gehäuses entfernen.
2-4. Die Halteschraube des hinteren Gehäuses entfernen.
2-5. Die beiden Schrauben der Eingangsplatine entfernen.
2-6. Das hintere Gehäuse abnehmen.
2-7. Das obere Gehäuse etwa 10 mm nach vorne schieben.
2-8. Die Rückseite des Gehäuseoberteils um ca. 30 mm anheben und nach vorne ziehen, dann das Gehäuseoberteil abnehmen.
2-9. Die Gebläseabdeckung entfernen.



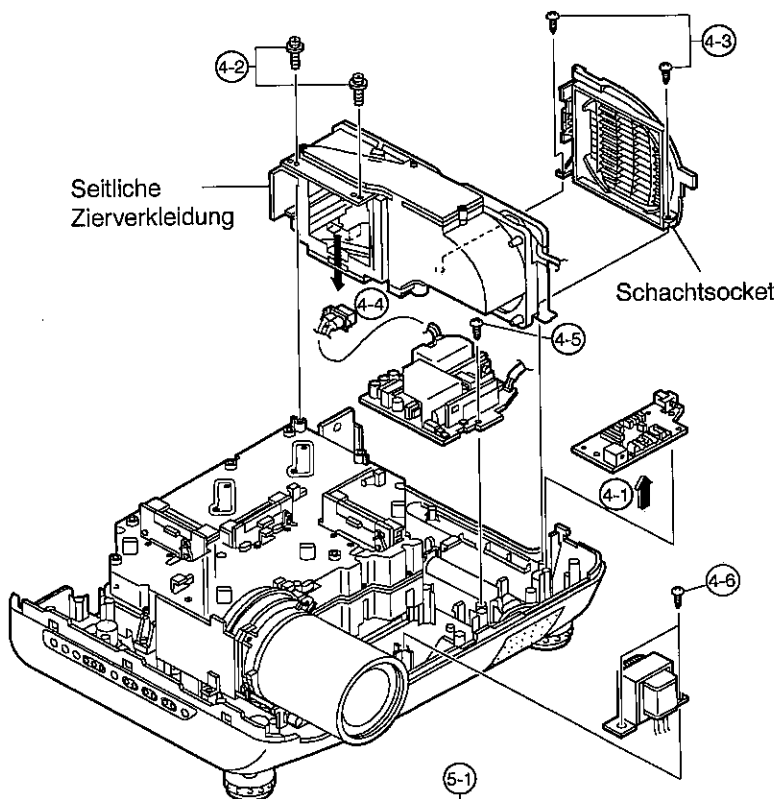
3. Entfernen der Haupt- und Zusatzplatinen

3-1. Die Schraube der Steuerplatine entfernen.
3-2. Die Steuerplatine herausnehmen.
3-3. Die Schraube der Abtastkonverter-Platine entfernen.
3-4. Die Abtastkonverter-Platine herausnehmen.
3-5. Die Hauptplatine herausnehmen.
3-6. Die Leistungsplatine herausnehmen.
3-7. Die Eingangsplatine herausnehmen.



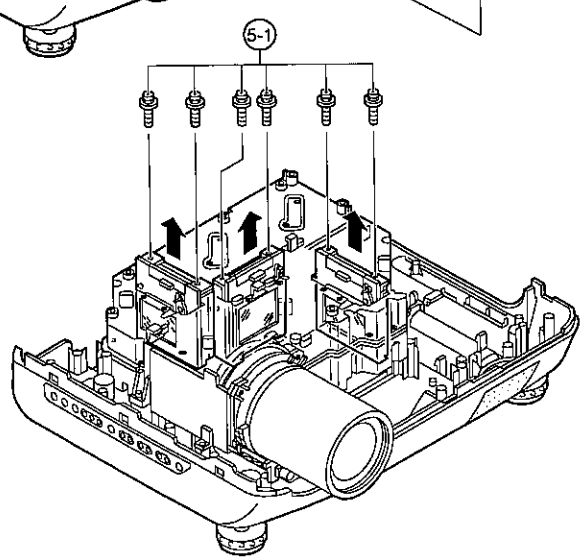
4. Entfernen der Platinen

4-1. Die LED-Platine herausnehmen.
4-2. Die beiden Schrauben der Gebläseeinheit entfernen.
4-3. Die beiden Schrauben der seitlichen Zierblende herausdrehen.
4-4. Den Stecker der Vorschaltgerät-Platine abziehen.
4-5. Die Schraube entfernen, dann die Vorschaltgerät-Platine herausnehmen.
4-6. Die beiden Schrauben entfernen, dann den Drosseltransistor herausnehmen.



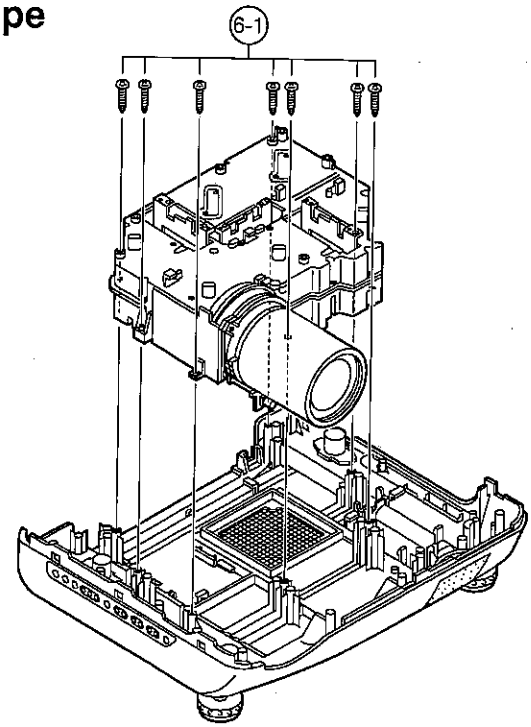
5. Anbringen der LCD-Tafel

5-1. Die beiden Schrauben von den R-, G- und B-LCD-Tafeln losdrehen, dann die Tafeln herausdrehen.



6. Herausnehmen der Objektiv-Baugruppe

6-1. Die sieben Schrauben der Objektiv-Baugruppe entfernen, dann die Baugruppe herausnehmen.



7. Entfernen der Lampe

7-1. Entfernen der Lampenabdeckung:

a) Eine Münze oder ein äquivalentes Distanzstück zwischen jeder der Ösen (A, B und C gezeigt links) und der Lampenabdeckung einführen. Die Lampenabdeckung dann von der Lampengehäuse trennen.

7-2. Entfernen der Lampenkabel:

a) Die Schraube und Mutter entfernen.

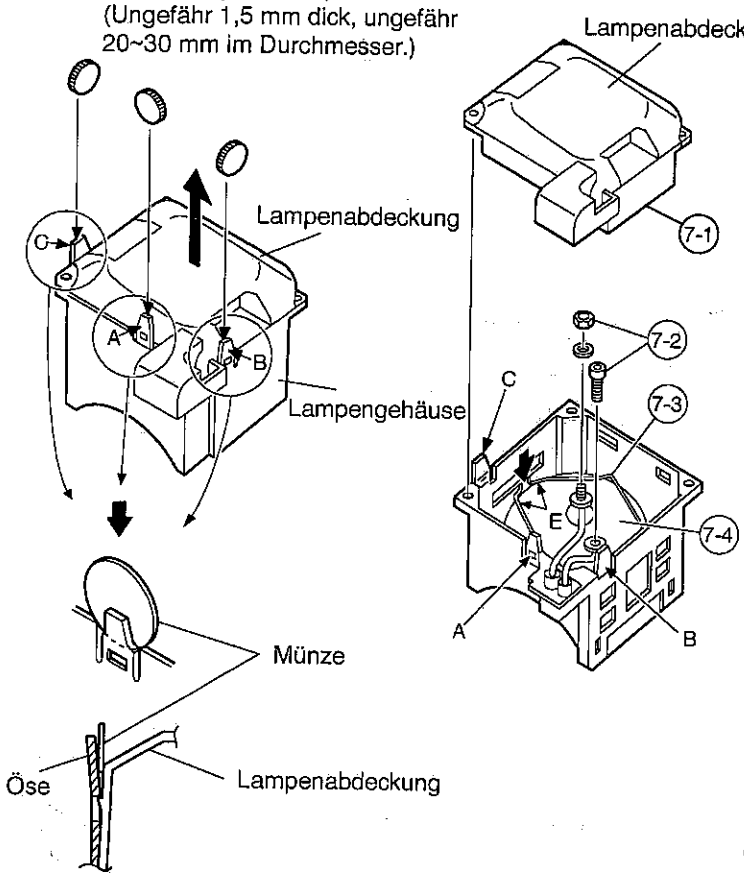
b) Die Lampenkabel abziehen.

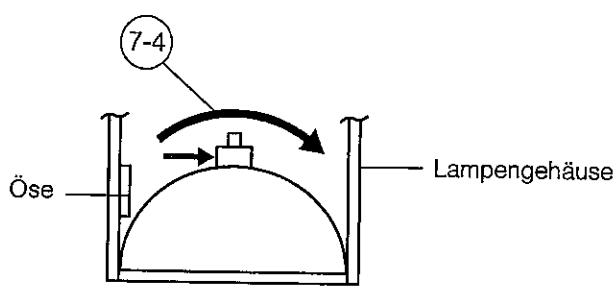
7-3. Entfernen der Lampen-Haltefeder:

a) Die mit "E" gekennzeichnete Feder am Sockel in Pfeilrichtung drücken, bis die äußere Kante der Lampe von der Öse absteht.

7-4. Entfernen der Lampe:

a) Die Lampe in Pfeilrichtung kippen, indem sie soweit am Sockel angedrückt wird, bis sich die äußere Kante der Lampe von der Öse löst.

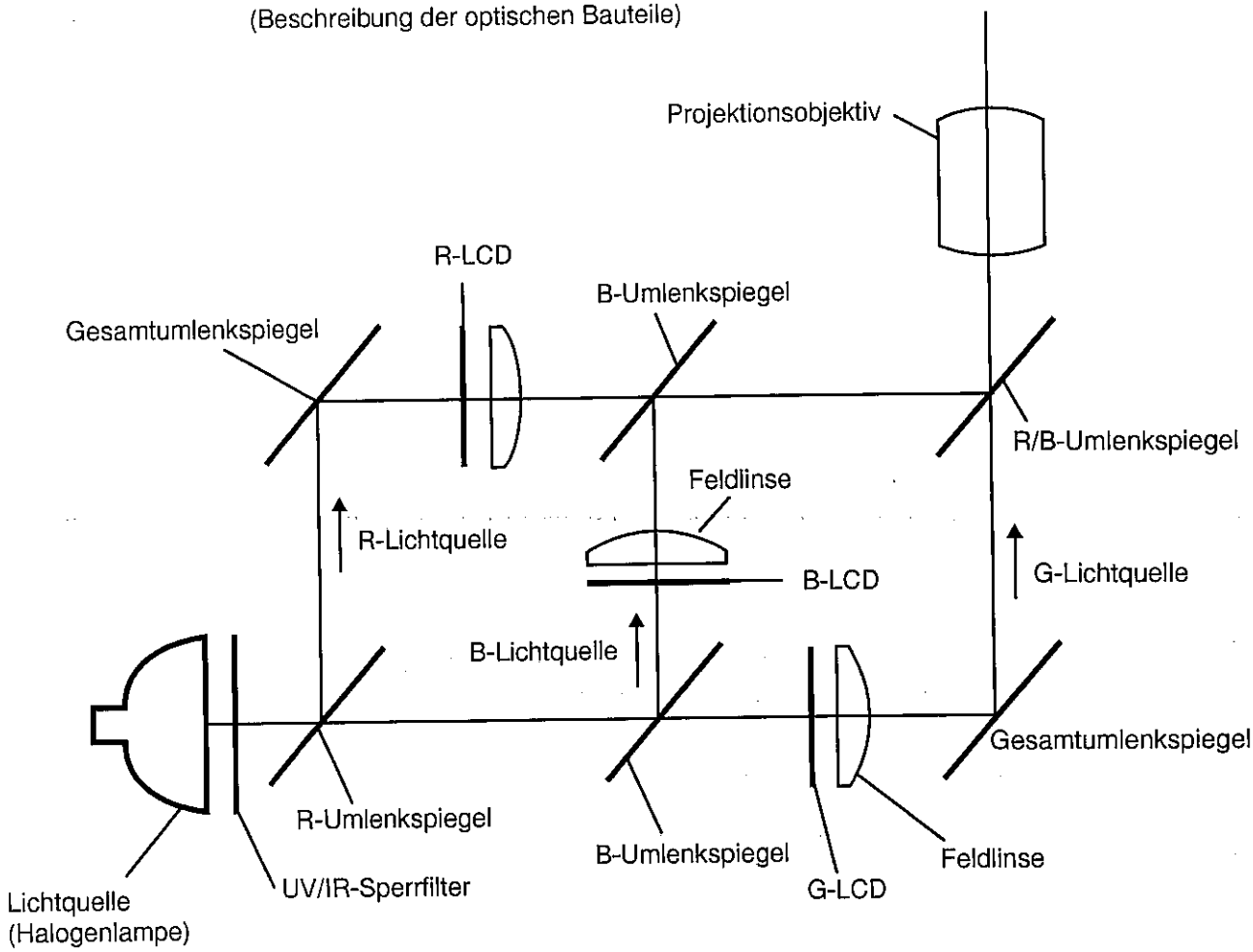




ÜBERSICHT DER OPTIKEINHEIT

Grundlagen für die optische Einstellung

(Beschreibung der optischen Bauteile)



1. Einstellung der optischen Achse

R : Lichtquelle – R-Reflektor – Totalreflektor – R- und B-Reflektoren – Projektionslinse

G : Lichtquelle – Totalreflektor – Projektionslinse

B : Lichtquelle – B-Reflektor – B-Reflektor – R- und B-Reflektoren – Projektionslinse

Die Winkel der obigen, umrandeten Reflektoren in Referenz zur G-Lichtquelle so einstellen, daß die R- und B- Lichtquellen mit der G-Lichtquelle beim Eintritt in die Projektionslinse ausgerichtet sind.

2. Ausrichtung der LCD-Tafeln

R : R-LCD-Tafel – Feldlinse – R/B-Reflektor – Projektionslinse

G : G-LCD-Tafel – Feldlinse – Gesamtreflektor – Projektionslinse

B : B-LCD-Tafel – Feldlinse – B-Reflektor – R/B-Reflektor – Projektionslinse

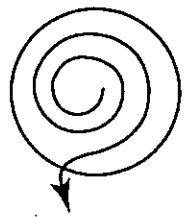
Alle LCD-Einheiten lassen sich einstellen, um den Bildwinkel und die Fokussierung zu verbessern.

■ Reinigung der Linsen und Spiegel

1. Linsenreinigung

• Reinigungsmittel:
Das Mischverhältnis von Alkohol und Äther ist je nach Umgebungstemperatur zu ändern. Das beste Mischverhältnis wird erreicht, wenn die Flüssigkeit unmittelbar nach dem Reinigen von der Linsenoberfläche verdampft. Je höher der Ätheranteil ist, desto schneller verdampft die Flüssigkeit.

• Verfahren:
Saubere, gebleichte Baumwolle oder im Fachhandel erhältliches Reinigungspapier verwenden. Die Linse zwischen der mit der Flüssigkeit befeuchteten Baumwolle halten (zwischen Daumen und Zeigefinger). Nun die Linse drehen und von der Mitte ausgehend zum Rand hin reinigen, um den Schmutz zu entfernen. Die vergüete Optik darf auf keinen Fall zu stark gerieben werden.



2. Spiegelreinigung

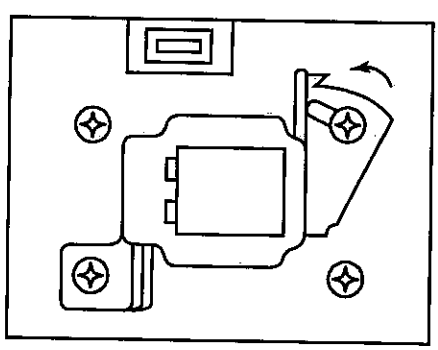
Die Spiegel niemals stark reiben, da diese mit einer feinen Oberflächenbeschichtung versehen sind. Bei verschmutzter Oberfläche ist der Spiegel zuerst mit Alkohol zu behandeln; danach wird mit einem trockenen Tuch nachgewischt.

3. Zur Beachtung

Die Bildqualität wird stark beeinträchtigt, wenn beide Seiten der LCD-Einheit und die LCD-Seite der Feldlinsen verschmutzt sind. Diese Flächen müssen gut saubergehalten werden.

■ Einstellung nach dem Auswechseln der LCD-Tafeln

Eine Winkeleinstellung der Ablenkplatte ist aufgrund der verbesserten Winkelpräzision nicht erforderlich. Einfach gegen den Uhrzeigersinn drehen und in dieser Position feststellen.



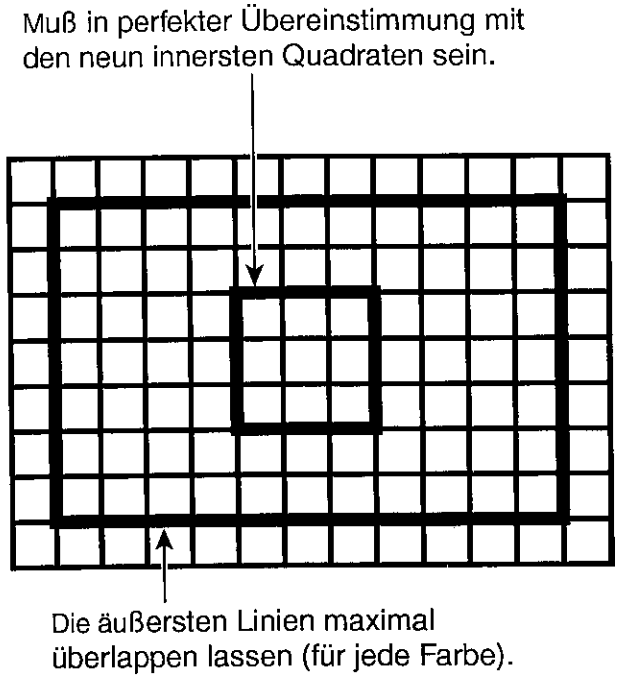
■ X- und Y-Einstellung

1. Erforderliche Hilfsmittel

(1) Lichtabschirmung (harte beschichtete Pappe zur Lichtblockierung)
(2) Mustergenerator

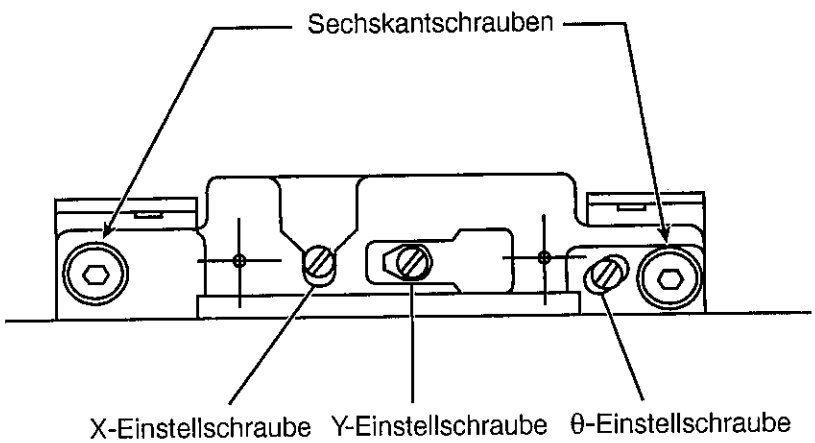
2. Einstellkriterien

(1) Die G-Tafel als Bezugsquelle benutzen. Die R- und B-Tafeln auf die G-Tafel abstimmen.
(2) Das Projektionsmuster muß in perfekter Übereinstimmung mit den neun innersten Quadraten sein.
(3) Die äußersten Linien maximal überlappen lassen.


Muß in perfekter Übereinstimmung mit den neun innersten Quadraten sein.
Die äußersten Linien maximal überlappen lassen (für jede Farbe).

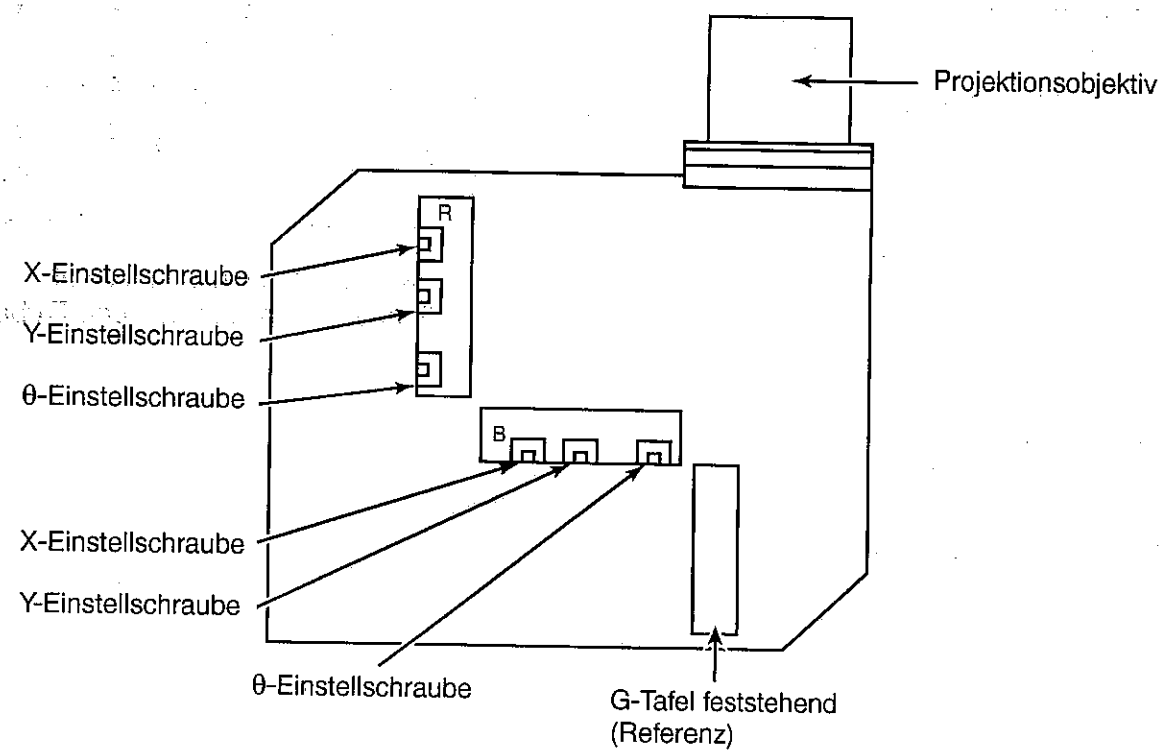
3. Einstellverfahren

(1) Von der R- und B-LCD-Tafel jeweils zwei (insgesamt 4) Sechskantschrauben lösen.
(2) Vom Mustergenerator das Gittermustersignal zuführen.
(3) Die R-LCD-Tafel ausrichten.
- Die Lichtabschirmplatte vor der B-LCD-Tafel plazieren um die B-Lichtquelle zu unterbinden.
- Die X-Achse für Horizontalrichtung einstellen.
- Die Y-Achse für Vertikalrichtung einstellen.
- Die θ-Richtung für das Kippen einstellen.



(4) Ausrichten der B-LCD-Tafel.
- Die Lichtabschirmplatte vor der R-LCD-Tafel plazieren, um die R-Lichtquelle zu unterbinden.
- Die B-Quadrate auf den G-Quadraten überlappen.
- Die X-Achse für Horizontalrichtung einstellen.
- Die Y-Achse für Vertikalrichtung einstellen.
- Die θ-Richtung für das Kippen einstellen.

(5) Die im Schritt 1 (oben) gelösten vier Sechskantschrauben auf 13 ± 1 kg-cm festziehen.



Einstellschraube	Rotationsrichtung	R	B
θ	Uhrzeigersinn	Rechte Seite nach oben	Rechte Seite nach unten
	Gegenuhrzeigersinn	Rechte Seite nach unten	Rechte Seite nach oben
Y	Uhrzeigersinn	Abgesenkt	Angehoben
	Gegenuhrzeigersinn	Angehoben	Abgesenkt
X	Uhrzeigersinn	Bewegt sich nach rechts	Bewegt sich nach links
	Gegenuhrzeigersinn	Bewegt sich nach links	Bewegt sich nach rechts

ADJ.IN-FUNKTION (EINGANGSEINSTELLUNGEN)

1. Übersicht
   Diese Funktion dient zur Ausführung von verschiedenen Einstellungen unter Verwendung des ADJ.IN-Schalters (S2002) und des Membranschalters am Projektor.
2. Verwendete Tasten
   [S2002], [MENU], [INPUT SELECT], [SELECT UP:▲], [SELECT DOWN:▼], [ADJUST+:▶], [ADJUST-:◀], [VIDEO+/-], [BRIGHT+/-], [COLOR+/-], and [TINT+/-]
3. Letztspeicherpositionen
   Einstellpositionen: Die vorherigen Einstellungen im ADJ.IN-Modus werden abgespeichert.
   Einstelldaten für alle Positionen
4. Vorgehensweise
   4-1. Den ADJ.IN-Modus mit Hilfe des [ADJ.IN]-Schalters aufrufen.
   4-2. Mit Hilfe der [SELECT UP:▲]-, [SELECT DOWN:▼]-, [ADJUST+:▶]-, [ADJUST-:◀]-Tasten die gewünschte Gruppe der Einstellpositionen wählen. Die [MENU]-Taste drücken.
   4-3. Mit Hilfe der ▲-, ▼-, ◀- und ▶-Tasten die gewünschte Einstellposition einer Gruppe bestimmen. Die [MENU]-Taste drücken. (Durch Drücken der ▲- oder ▼-Taste ändern sich die Einstellpositionen einer Gruppe in der entsprechenden Richtung.)
   4-4. Die [INPUT SELECT]-Taste drücken, worauf die vorher angezeigte Einstellposition wieder am Bildschirm erscheint.
   4-5. Durch Drücken des [ADJ.IN]-Schalters im ADJ.IN-Modus wird dieser Modus ausgeschaltet. (Das Display im ADJ.IN-Modus wird in englischer Sprache angezeigt.)
5. Gruppen der Einstellpositionen

VIDEO 1	VIDEO 2	VIDEO 3	MASK	N • W
SUB-DC	CB-R	PAL-SUB-C	TOP	RED
SUB-C	CB-G	BELL-FO	BOTTOM	GREEN
TINT	CB-B	SCM-R-Y		BLUE
COLOR	SUB-BIAS	SCE-B-Y		WHITE
PICTURE	R-DRIVE	PN-AMP		N • W
BRIGHT	R-BIAS	SCM-AMP		
	R-DRIVE	PAL-H		
	R-BIAS			

Im Video-Eingangsmodus: VIDEO 1-3, MASK, N.W

HINWEIS: VIDEO 3 erscheint am Bildschirm, wird aber an diesem Modell nicht verwendet.

DAC-BETRIEB (DIGITAL-ANALOG-UMSETZER)

VIDEO 1
- SUB-DC: Einstellung der Nebengleichspannung
- SUB-C: Einstellung des Zusatzkontrasts
- TINT: Einstellung des Farbtons
- COLOR: Einstellung der Farbdichte
- PICTURE: Bildeinstellung
- BRIGHT: Helligkeitseinstellung

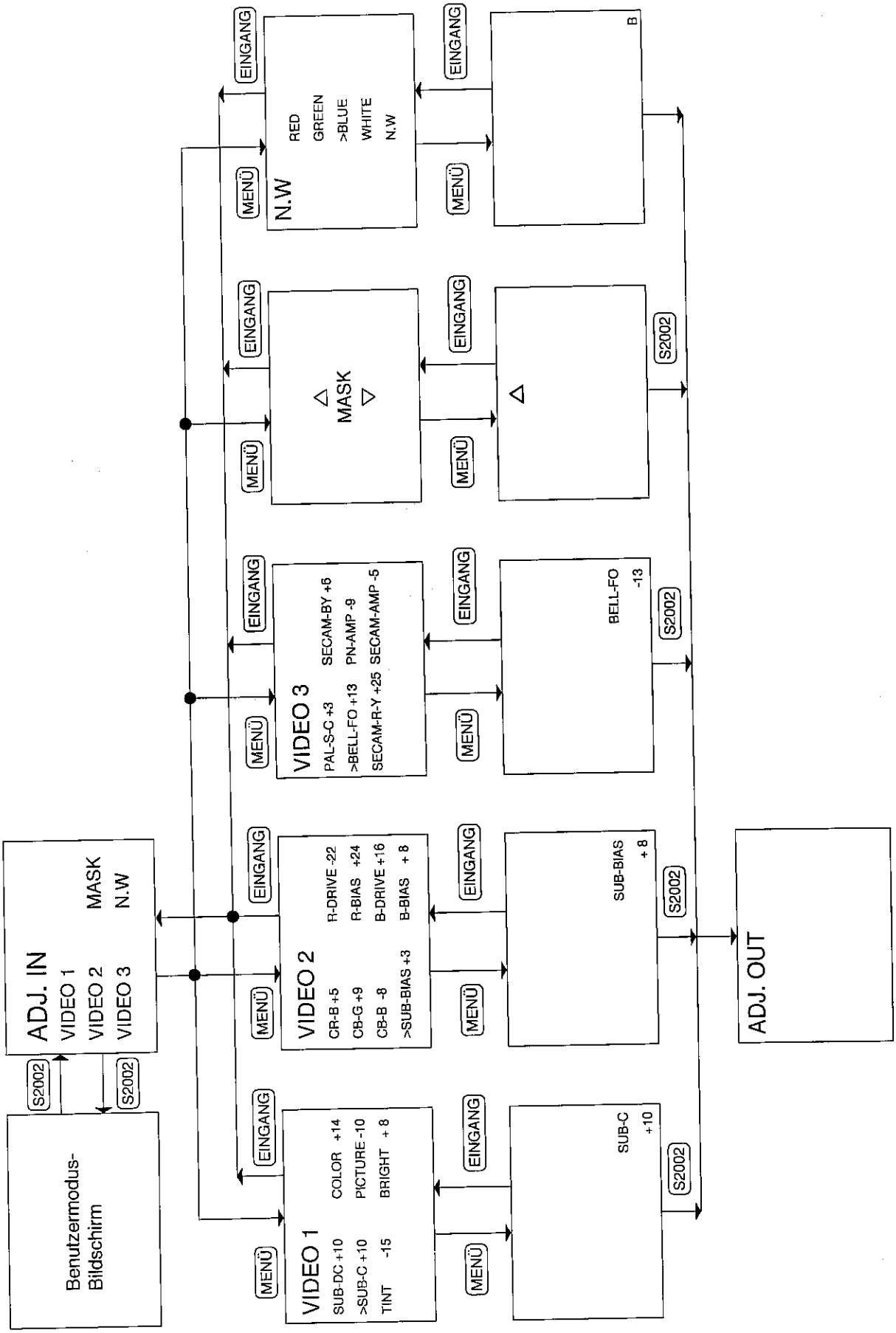
VIDEO 2
- CB-R: Einstellung der Gegenvorspannung, nur für Rot
- CB-G: Einstellung der Gegenvorspannung, nur für Grün
- CB-B: Einstellung der Gegenvorspannung, nur für Blau
- SUB-BIAS: Nicht belegt
- R-DRIVE: Einstellung der Weißbalance-Steuerung (rot)
- R-BIAS: Einstellung der Weißbalance-Vorspannung (rot)
- B-DRIVE: Einstellung der Weißbalance-Steuerung (blau)
- B-BIAS: Einstellung der Weißbalance-Vorspannung (blau)

VIDEO 3 (Dieses Display erscheint am Bildschirm, wird aber bei diesem Modell nicht verwendet.)
- PAL-SUB-C: Einstellung des Zusatzkontrasts für PAL
- BELL-FO: Einstellung des Konusfilters
- SCM-R-Y: Einstellung für SECAM R-Y
- SCE-B-Y: Einstellung für SECAM B-Y
- PN-AMP: Einstellung der PN-Amplitude
- SCM-AMP: Einstellung der SECAM-Amplitude
- PAL-H: Einstellung der Horizontalphase

MASK Maskierungseinstellungen
- TOP: Positionierung der Maskierung in der oberen Bildschirmhälfte
- BOTTOM: Positionierung der Maskierung in der unteren Bildschirmhälfte

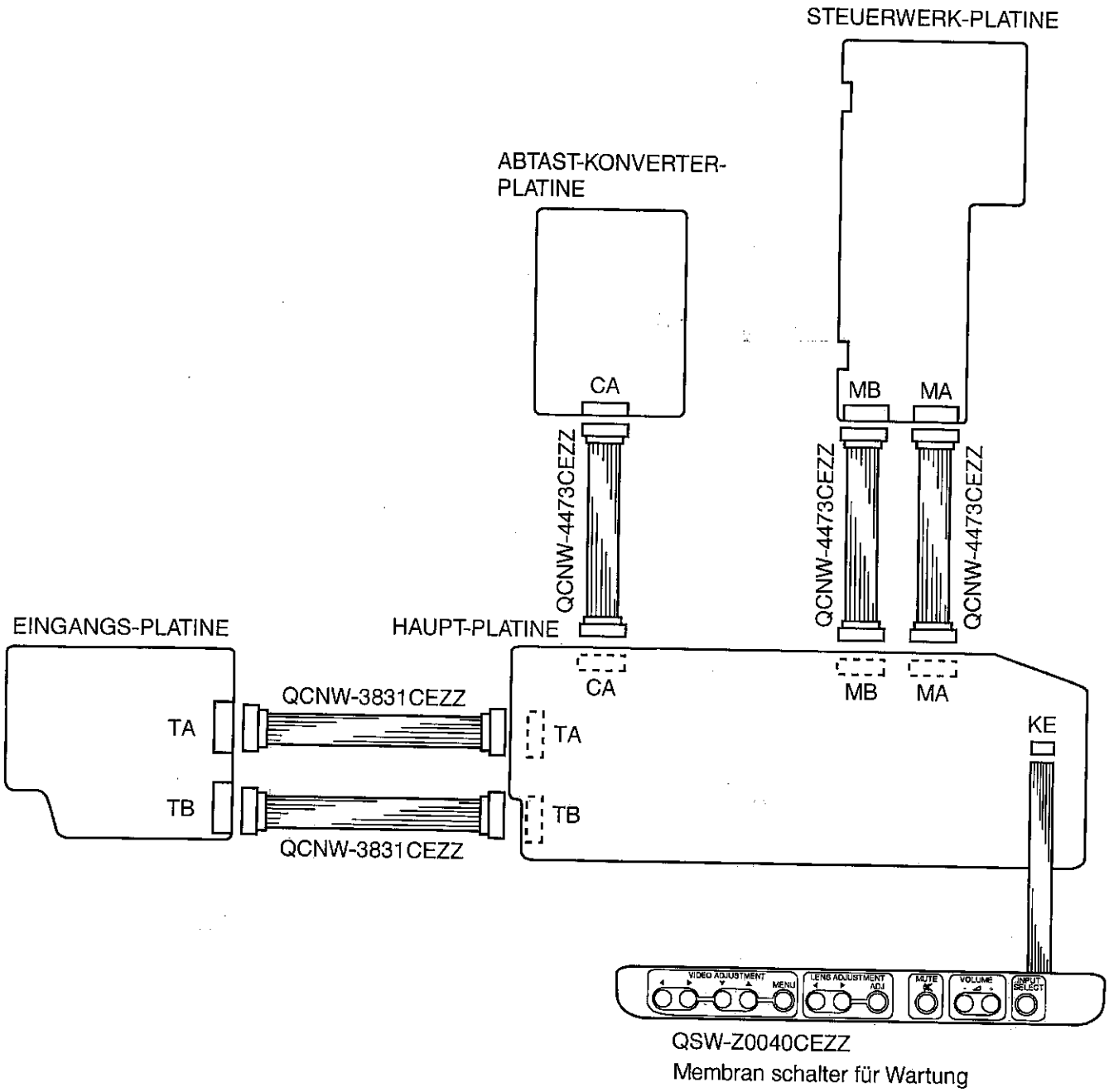
N-W Einfarbige Anzeigen
- RED: Rot
- GREEN: Grün
- BLUE: Blau
- WHITE: Weiß
- N.W: Weiß

FLUSSDIAGRAMM DER EINSTELLUNGEN



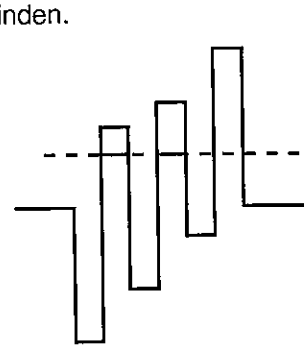
Anschluß der Verlängerungskabel

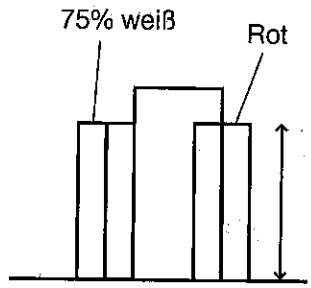
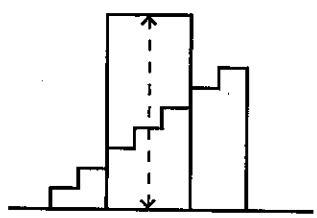
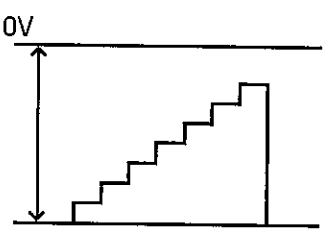
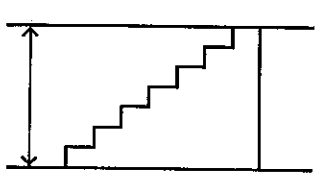
Zuerst den Netzstecker abziehen, dann die Verlängungskabel anschließen.

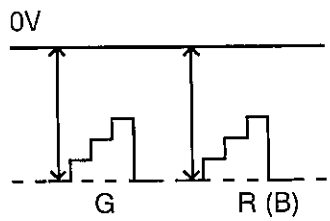
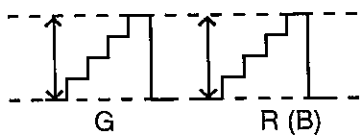
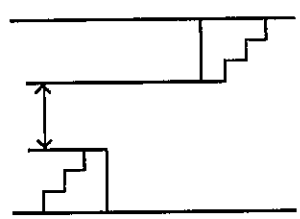


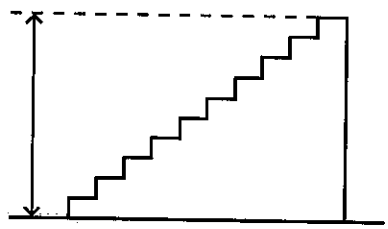
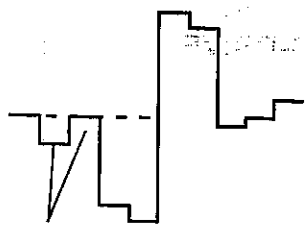
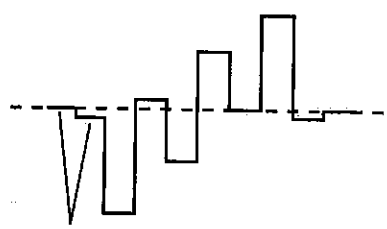
QSW-Z0040CEZZ
Membran schalter für Wartung

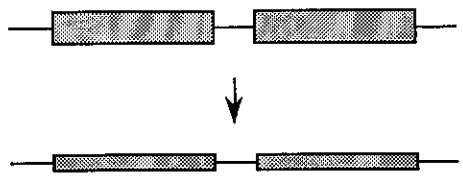
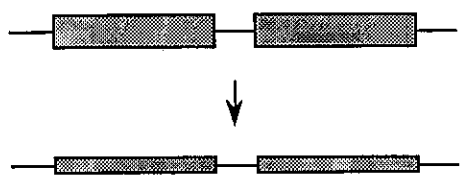
ELEKTRISCHE EINSTELLUNG

Schritt	Einstellposition	Einstellbedingungen	Einstellverfahren
1	**VCO-Oszillation L1601 (Steuereinheit)**	1. Das NTSC-Monoskop-Schirmbildsignal empfangen. 2. S1601 drücken.	• L1601 so einstellen, daß die Abbildung in horizontaler Synchronisierung am Bildschirm erscheint. Danach den Schalter freigeben.
2	**Horizontale Mitte R1628**	1. Das NTSC-Monoskop-Schirmbildsignal empfangen.	• R1628 so einstellen, daß die Abbildung symmetrisch in bezug auf die vertikale Mitte am Bildschirm erscheint.
3	**Abtastkonverter-Oszillation L4101 (Abtastkonverter)**	1. Einen Kurzschluß zwischen TP4101 und GND (Masse) herstellen. 2. Den Freqenzzähler zwischen TP4102 und GND anschließen.	• L4101 so einstellen, daß der Frequenzzähler einen Wert von 15,625 ± 0,01 kHz anzeigt.
4	**Nebengleichspannung**	1. Das NTSC-Farbbalkensignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 1 Position: SUB-DC 3. Das Oszilloskop zwischen Stift (16) von IC801 (R-OUT) und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters den Pegel zwischen dem Schwarzbereich und der Schulter auf 0,32 ± 0,05 Vss einstellen.
5	**Farbton**	1. Das NTSC-Farbbalkensignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 1 Position: TINT 3. Das Oszilloskop zwischen Stift (6) von P800 [B-Y-Stift (41) von IC801] und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters die B-Y-Wellenform so einstellen, daß sich die Cyan- und Magenta-Bereiche in einer geraden Linie befinden. 

Schritt	Einstellposition	Einstellbedingungen	Einstellverfahren
6	**Farbdichte**	1. Das NTSC-Farbbalkensignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 1 Position: COLOR 3. Das Oszilloskop zwischen Stift (16) von IC801 und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters den Primär-Ausgangspegel für Rot auf 75% des Weißpegels einstellen. 
7	**AGC (Automatische Verstärkungsregelung) R1212**	1. Das NTSC-Farbbalkensignal empfangen. 2. Das Oszilloskop zwischen Stift (16) von IC801 und GND anschließen.	• R1212 so einstellen, daß der Pegel zwischen dem Weiß- und Schwarzbereich 3,0 ± 0,05 Vss beträgt. 
8	**Helligkeit**	1. Das 10-Stufen-Grauskalasignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 1 Position: BRIGHT 3. Das Oszilloskop zwischen Stift (5) von SC1101 und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters den Schwarzpegel (Wert 0 der Skala) auf DC –5,0 ± 0,05 Vss einstellen. 
9	**Bild**	1. Das 10-Stufen-Grauskalasignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 1 Position: PICTURE 3. Das Oszilloskop zwischen Stift (5) von SC1101 und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters den Pegel zwischen dem Weiß- und Schwarzbereich auf 3,3 ± 0,05 Vss einstellen. 

Schritt	Einstellposition	Einstellbedingungen	Einstellverfahren
10	**Vorspannung R-BIAS B-BIAS**	1. Das 10-Stufen-Grauskalasignal empfangen. 2. R1505 bis zum Anschlag im Uhrzeigersinn drehen. 3. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 2 Position: R-BIAS (B-BIAS) 4. CH1 des Oszilloskops zwischen Stift (5) von SC1101 und GND anschließen. 5. CH2 des Oszilloskops zwischen Stift (6) von SC1101 [Stift (4) von SC1101] und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters den DC-Pegel auf den Wert 0 der Skala einstellen, wie nachstehend vorgegeben. 
11	**Ansteuerung R-DRIVE B-DRIVE**	1. Das 10-Stufen-Grauskalasignal empfangen. 2. R1505 bis zum Anschlag im Uhrzeigersinn drehen. 3. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 1 Position: PICTURE 4. CH1 des Oszilloskops zwischen Stift (5) von SC1101 und GND anschließen. 5. CH2 des Oszilloskops zwischen Stift (6) von SC1101 [Stift (4) von SC1101] und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters die gleichen Wellenformen einstellen. 
12	**Gamma-Korrektur R1144 R1150**	1. Das 10-Stufen-Grauskalasignal empfangen. 2. Den DC-Voltmesser zwischen Stift (2) von SC1101 und GND anschließen. (R1144 ist in der Mittelposition zu belassen.) 3. Den DC-Voltmesser zwischen Stift (1) von SC1101 und GND anschließen. (R1150 ist in der Mittelposition zu belassen.)	• R1144 so einstellen, daß der Voltmesser einen Wert von –4,3 ± 0,05 V anzeigt. • R1150 so einstellen, daß der Voltmesser einen Wert von –3,7 ± 0,05 V anzeigt.
13	**Weiß-weiß-Pegel R1165**	1. Das 10-Stufen-Grauskalasignal empfangen. 2. Das Oszilloskop zwischen Stift (4) (G-OUT) von P1605 und GND anschließen.	• R1165 so einstellen, daß der Wert zwischen den Weißbereichen 2,0 ± 0,05 Vss beträgt. 

Schritt	Einstellposition	Einstellbedingungen	Einstellverfahren
14	**PAL-Zusatzkontrast**	1. Das 10-Stufen-Grauskalasignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 3 Position: PAL-SUB-C 3. Das Oszilloskop zwischen Stift (5) von SC1101 und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters den Pegel zwischen dem Weiß- und Schwarzbereich auf 3,3 ± 0,05 Vss einstellen. 
15	**SECAM R-Y**	1. Das SECAM-Farbbalkensignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 3 Position: SECAM R-Y 3. Das Oszilloskop zwischen TP801 und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters die gleichen DC-Pegel einstellen.  Auf den gleichen Pegel einstellen
16	**SECAM B-Y**	1. Das SECAM-Farbbalkensignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 3 Position: SECAM B-Y 3. Das Oszilloskop zwischen TP802 und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters die gleichen DC-Pegel einstellen.  Auf den gleichen Pegel einstellen
17	**SECAM-Amplitude**	1. Das SECAM-Farbbalkensignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 3 Position: SCM-AMP 3. Das Oszilloskop zwischen TP801 und GND anschließen.	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters den Abschnitt auf die gleiche Höhe wie den 75%-Weißpegel einstellen. 75%-Weißpegel Gleiche Höhe wie der 75%-Weißpegel
18	**PAL-Horizontalmitte**	1. Das PAL-Monoskop-Mustersignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 3 Position: PAL-H	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters die rechte und linke Überabtastung auf den gleichen Wert einstellen.

Schritt	Einstellposition	Einstellbedingungen	Einstellverfahren
19	**Weißbalance (R) R1162**	1. Das PAL-Monoskop-Mustersignal empfangen. 2. CH1 des Oszilloskops zwischen Stift (4) (G-OUT) von P1605 und GND anschließen, sowie CH2 zwischen Stift (2) (R-OUT) von P1605 und GND verbinden. Die CH2-Wellenform invertieren, dann die Wellenformen von CH1 und CH2 addieren.	• R1162 so einstellen, daß die Wellenform so linear wie möglich dargestellt wird. 
20	**Weißbalance (B) R1159**	1. Das PAL-Monoskop-Mustersignal empfangen. 2. CH1 des Oszilloskops zwischen Stift (4) (G-OUT) von P1605 und GND anschließen, sowie CH2 zwischen Stift (6) (B-OUT) von P1605 und GND verbinden. Die CH2-Wellenform invertieren, dann die Wellenformen von CH1 und CH2 addieren. 3. Einen Kurzschluß zwischen den Stiften (1) und (2) von TP3 herstellen, um den Modulations-Schaltkreis für die horizontale Sägezahnwelle zu deaktivieren.	• R1159 so einstellen, daß die Wellenform so linear wie möglich dargestellt wird. 
21	**Farbschattierung zwischen rechts und links R1505**	1. Das PAL-Monoskop-Mustersignal empfangen.	• R1505 so einstellen, daß die Farbschattierung zwischen den rechten und linken Hälften auf ein Minimum reduziert wird. • Die rechten und linken Seiten invertieren, um sicherzustellen, daß die Differenz in der Farbschattierung auf ein Minimum reduziert ist.
22	**Gemeinsame Vorspannung R, G, B R1678 (R) R1673 (G) R1664 (B)**	1. Das NTSC-Monoskop-Mustersignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: VIDEO 2 Position: CB-R, CB-G, CB-B	• Für Einstellposition CB-R ist R1678 so einzustellen, daß der schärfste Kontrast erhalten wird. • Für Einstellposition CB-G ist R1673 so einzustellen, daß der schärfste Kontrast erhalten wird. • Für Einstellposition CB-B ist R1664 so einzustellen, daß der schärfste Kontrast erhalten wird.
23	**Weißbalance (Feineinstellung)**	1. Die gleichen Schritte wie unter 19 und 20 ausführen.	• Die Weißbalance visuell überprüfen. Nötigenfalls noch einmal einjustieren.

Schritt	Einstellposition	Einstellbedingungen	Einstellverfahren
24	**Maskierung**	1. Das NTSC-Monoskop-Mustersignal empfangen. 2. S2002 drücken, um den folgenden Modus aufzurufen: Gruppe: MASK Position: TOP, BOTTOM	• Mit den VIDEO ADJUSTMENT-Tasten (+/-) des Membranschalters die obere und untere Überabtastung auf einen Wert von 95% einstellen.
25	**Position des Zeichen-Displays T2001**	1. Das NTSC-Monoskop-Mustersignal empfangen.	• T2001 so einstellen, daß sich das Fokussierzeichen in der Mitte des Bildschirms befindet. • Sich vergewissern, daß die Zeichen "FOCUS" mit der horizontalen Auflösungslinie ausgerichtet sind.

TABELLE FÜR STÖRUNGSSUCHE

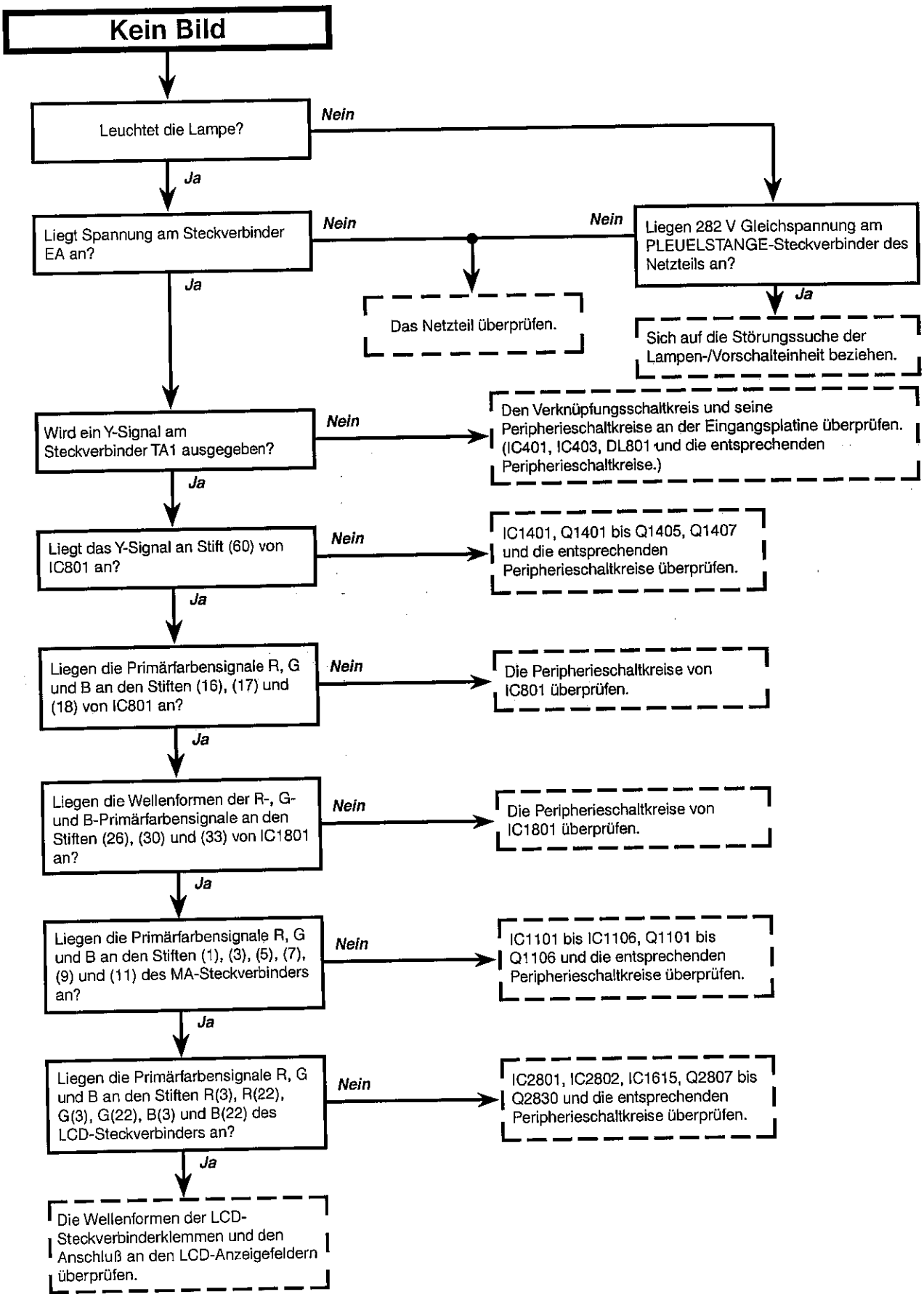

Kein Bild
Leuchtet die Lampe?
Nein
Ja
Liegt Spannung am Steckverbinder EA an?
Nein
Nein
Liegen 282 V Gleichspannung am PLEUELSTANGE-Steckverbinder des Netzteils an?
Ja
Ja
Das Netzteil überprüfen.
Sich auf die Störungssuche der Lampen-/Vorschalteinheit beziehen.
Wird ein Y-Signal am Steckverbinder TA1 ausgegeben?
Nein
Den Verknüpfungsschaltkreis und seine Peripherieschaltkreise an der Eingangsplatine überprüfen. (IC401, IC403, DL801 und die entsprechenden Peripherieschaltkreise.)
Ja
Liegt das Y-Signal an Stift (60) von IC801 an?
Nein
IC1401, Q1401 bis Q1405, Q1407 und die entsprechenden Peripherieschaltkreise überprüfen.
Ja
Liegen die Primärfarbensignale R, G und B an den Stiften (16), (17) und (18) von IC801 an?
Nein
Die Peripherieschaltkreise von IC801 überprüfen.
Ja
Liegen die Wellenformen der R-, G- und B-Primärfarbensignale an den Stiften (26), (30) und (33) von IC1801 an?
Nein
Die Peripherieschaltkreise von IC1801 überprüfen.
Ja
Liegen die Primärfarbensignale R, G und B an den Stiften (1), (3), (5), (7), (9) und (11) des MA-Steckverbinders an?
Nein
IC1101 bis IC1106, Q1101 bis Q1106 und die entsprechenden Peripherieschaltkreise überprüfen.
Ja
Liegen die Primärfarbensignale R, G und B an den Stiften R(3), R(22), G(3), G(22), B(3) und B(22) des LCD-Steckverbinders an?
Nein
IC2801, IC2802, IC1615, Q2807 bis Q2830 und die entsprechenden Peripherieschaltkreise überprüfen.
Ja
Die Wellenformen der LCD-Steckverbinderklemmen und den Anschluß an den LCD-Anzeigefeldern überprüfen.

TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)

Keine Synchronisierung

Liegt ein Videosignal am Emitter von Q604 an?

Nein → IC607, Q601 bis Q604, Q608, Q609 und die entsprechenden Peripherieschaltkreise überprüfen.

Ja

Erfolgt eine V- und H-Synchronausgabe an den Stiften (64) bzw. (6) von IC801? Sind diese Signale synchronisiert (im Takt) mit dem Eingangssignal am Stift (60)?

Nein → IC801 und die entsprechenden Peripherieschaltkreise überprüfen.

Ja

Ist das Horizontal- oder Vertikal-Ausgangssignal nicht synchronisiert?

Horizontal

Vertikal

Vertikal

Horizontal

Liegt ein Horizontal-Synchronsignal an Stift (43) von IC1601 an?

Nein → IC605, IC606 und die entsprechenden Peripherieschaltkreise überprüfen.

Ja

Sind die Signale an den Stiften (43) und (11) von IC1601 synchronisiert (im Takt)?

Nein → IC1601, IC1604 und die entsprechenden Peripherieschaltkreise überprüfen.

Ja

Die Kabelanschlüsse und die Leistung der LCD-Anzeigefelder überprüfen.

Liegt ein Vertikal-Synchronsignal an Stift (45) von IC1601 an?

Nein → Den MB-Steckverbinder und die entsprechenden Peripherieschaltkreise überprüfen.

Ja

Sind die Signale an den Stiften (12) und (45) von IC1601 synchronisiert?

Nein → IC1601, IC1604 und die entsprechenden Peripherieschaltkreise überprüfen.

Ja

Die Kabelanschlüsse und die Leistung der LCD-Anzeigefelder überprüfen.

TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)

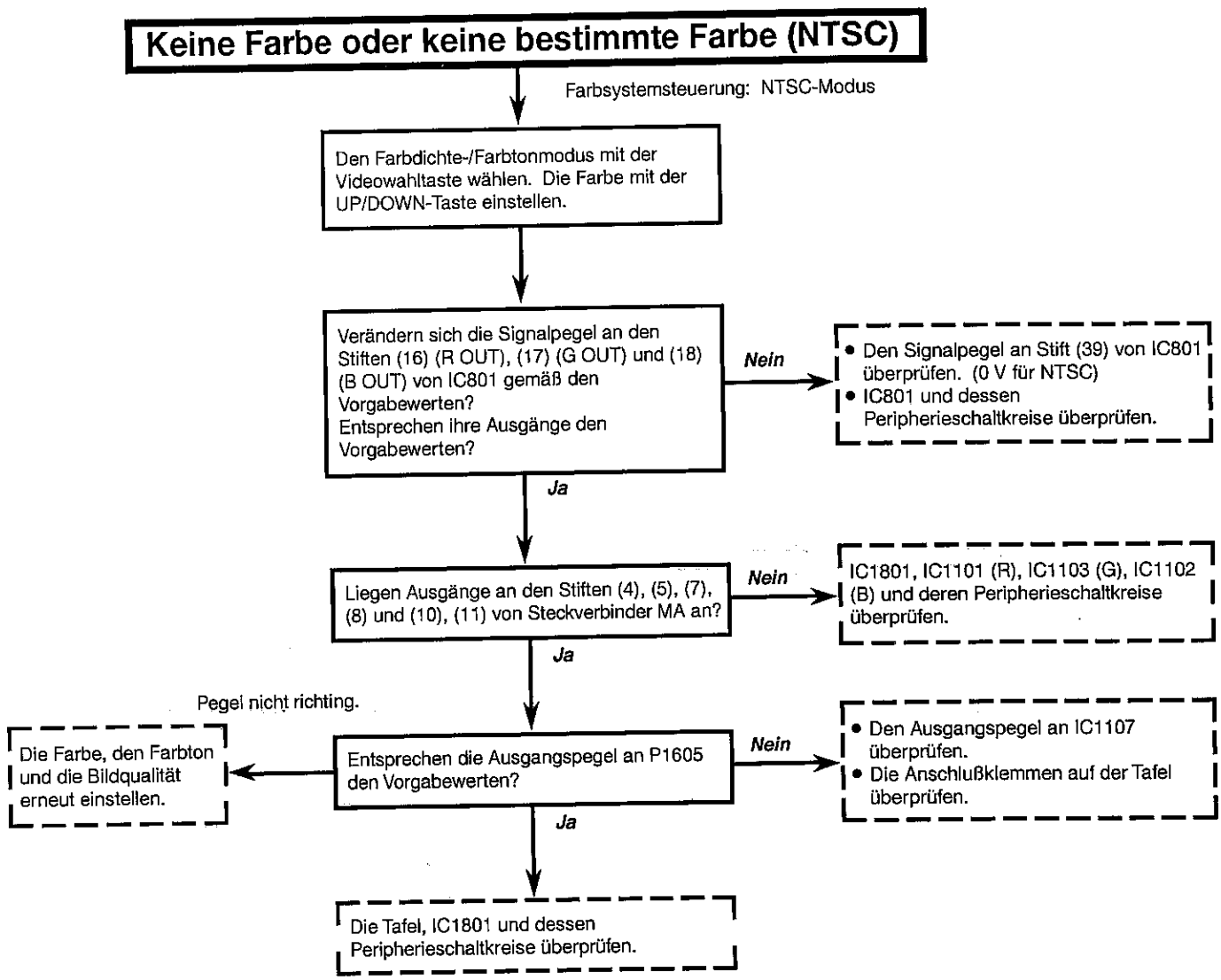
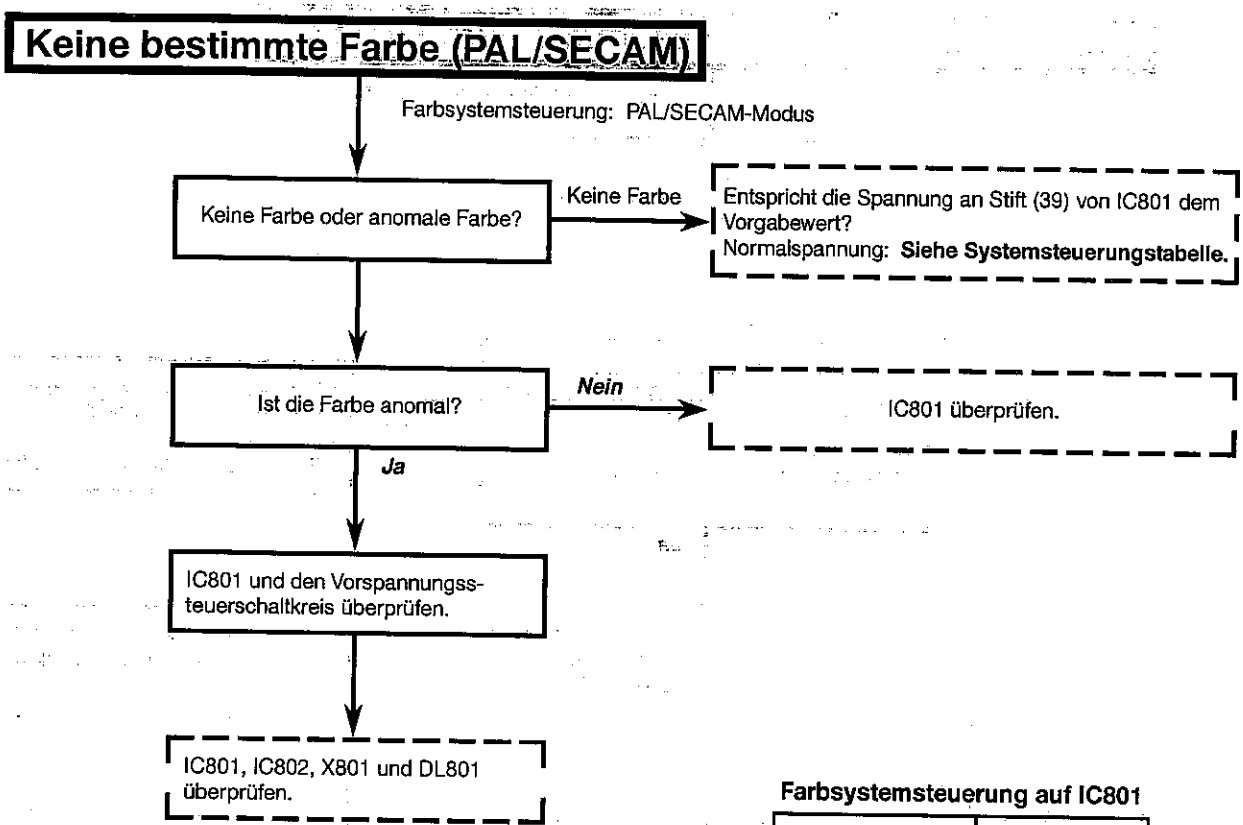

Keine Farbe oder keine bestimmte Farbe (NTSC)
Farbsystemsteuerung: NTSC-Modus
Den Farbdichte-/Farbtonmodus mit der Videowahltaste wählen. Die Farbe mit der UP/DOWN-Taste einstellen.
Verändern sich die Signalpegel an den Stiften (16) (R OUT), (17) (G OUT) und (18) (B OUT) von IC801 gemäß den Vorgabewerten? Entsprechen ihre Ausgänge den Vorgabewerten?
Nein
• Den Signalpegel an Stift (39) von IC801 überprüfen. (0 V für NTSC)
• IC801 und dessen Peripherieschaltkreise überprüfen.
Ja
Liegen Ausgänge an den Stiften (4), (5), (7), (8) und (10), (11) von Steckverbinder MA an?
Nein
IC1801, IC1101 (R), IC1103 (G), IC1102 (B) und deren Peripherieschaltkreise überprüfen.
Ja
Pegel nicht richting.
Die Farbe, den Farbton und die Bildqualität erneut einstellen.
Entsprechen die Ausgangspegel an P1605 den Vorgabewerten?
Nein
• Den Ausgangspegel an IC1107 überprüfen.
• Die Anschlußklemmen auf der Tafel überprüfen.
Ja
Die Tafel, IC1801 und dessen Peripherieschaltkreise überprüfen.

TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)



Farbsystemsteuerung auf IC801

Farbsystem	Stift (39)
PAL	H
NTSC	M
SECAM	L

H: 8,3 V M: 4,6 V L: 0,1 V

TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)

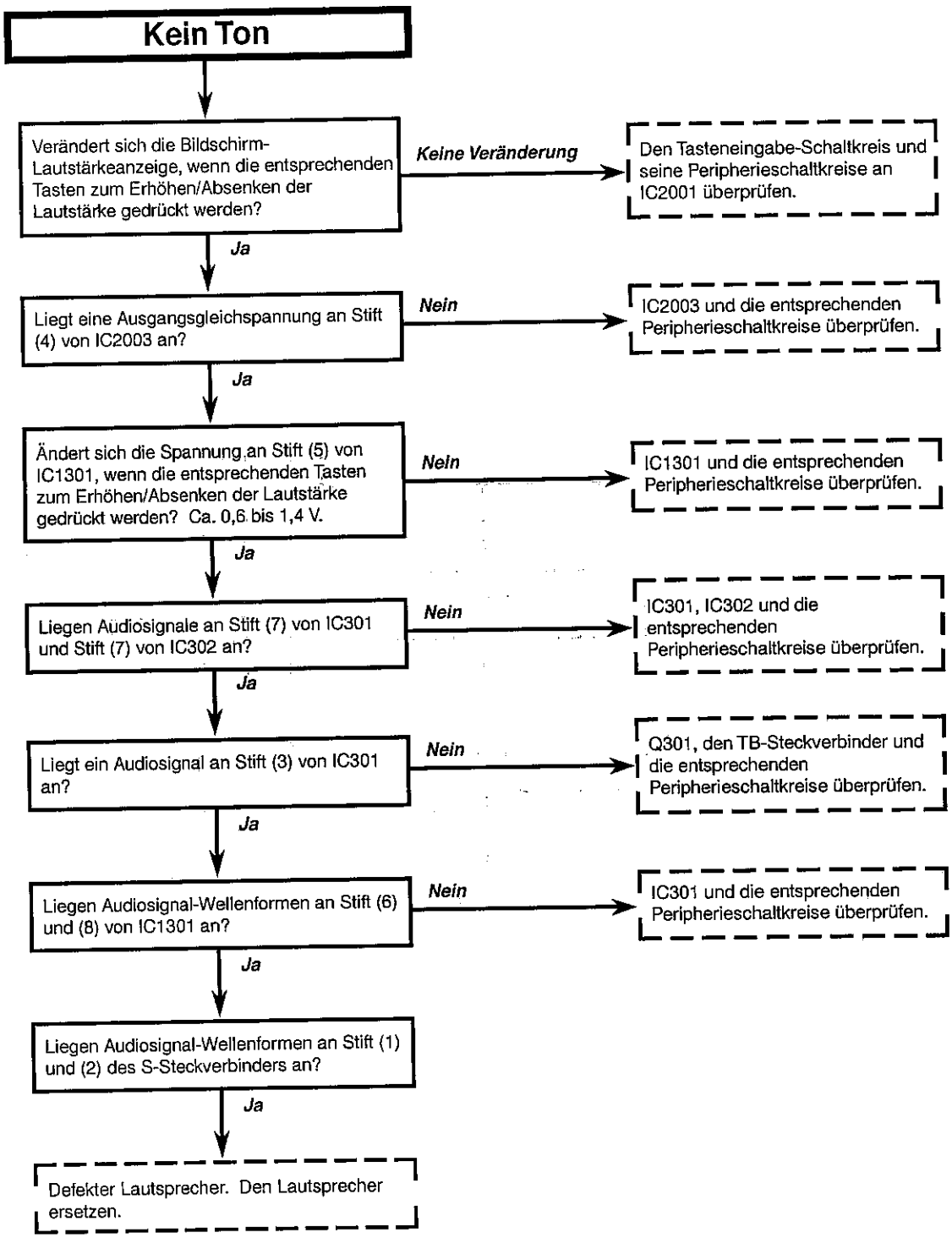
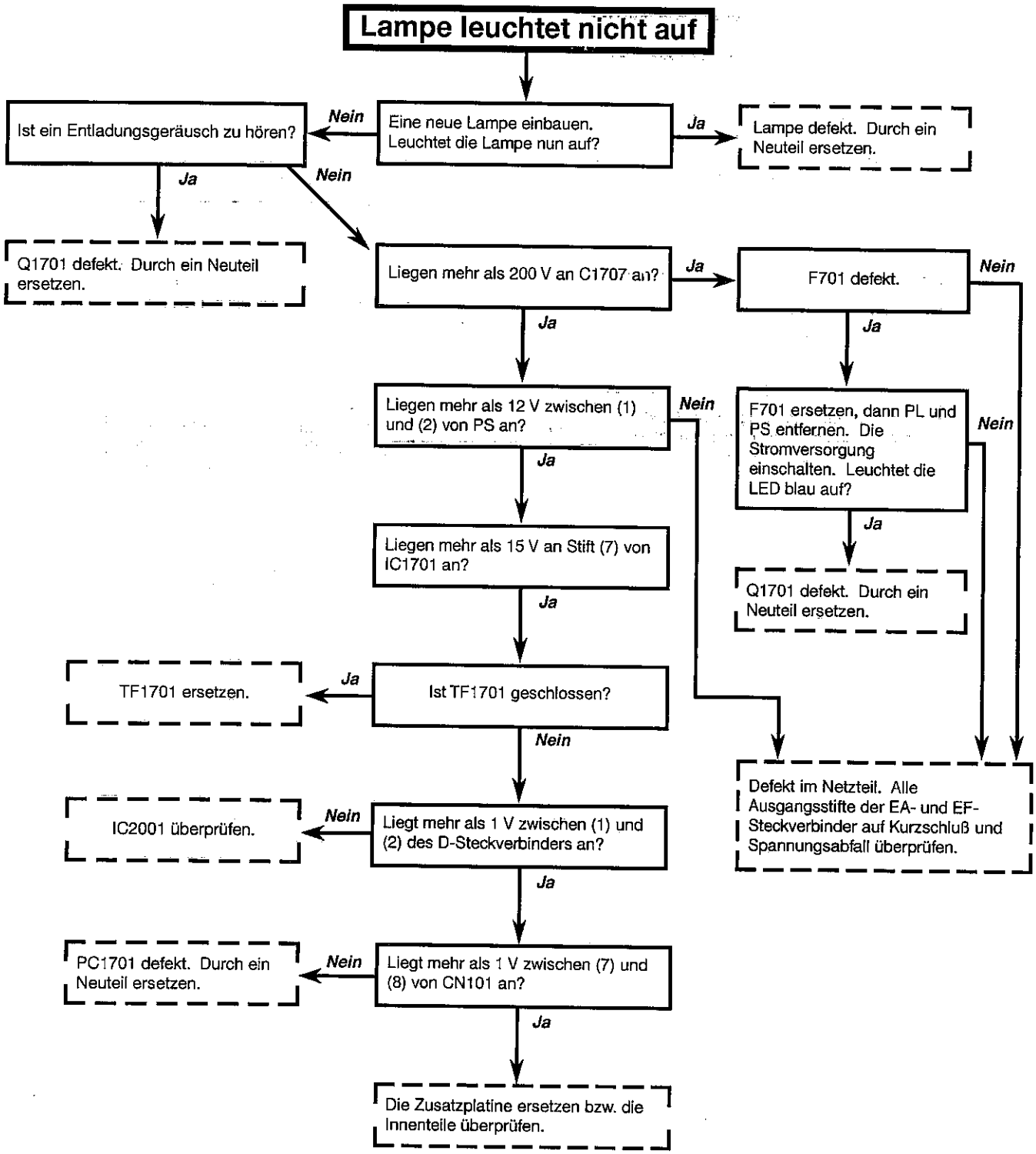
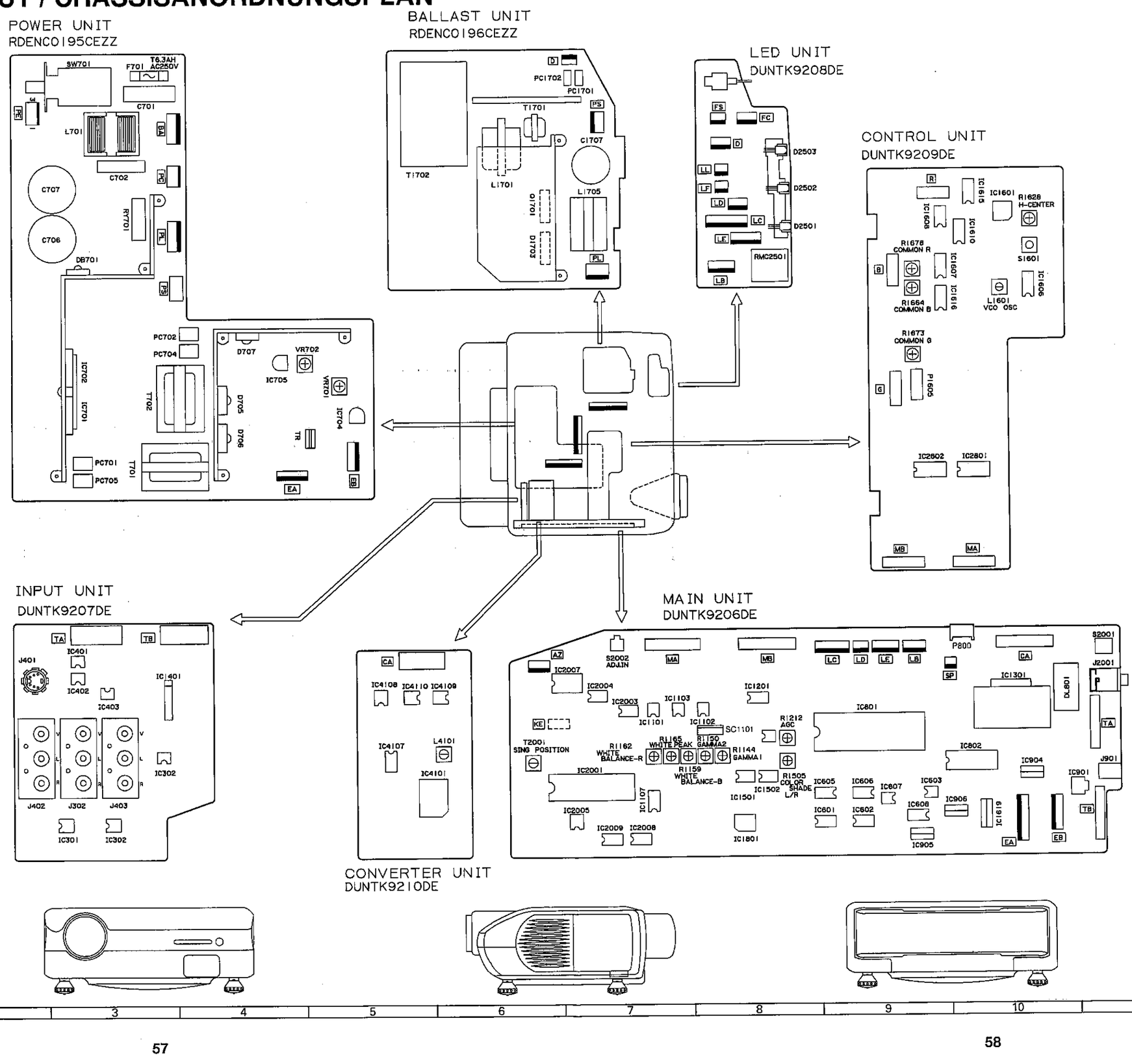

Kein Ton
Verändert sich die Bildschirm-Lautstärkeanzeige, wenn die entsprechenden Tasten zum Erhöhen/Absenken der Lautstärke gedrückt werden?
Keine Veränderung
Den Tasteneingabe-Schaltkreis und seine Peripherieschaltkreise an IC2001 überprüfen.
Ja
Liegt eine Ausgangsgleichspannung an Stift (4) von IC2003 an?
Nein
IC2003 und die entsprechenden Peripherieschaltkreise überprüfen.
Ja
Ändert sich die Spannung an Stift (5) von IC1301, wenn die entsprechenden Tasten zum Erhöhen/Absenken der Lautstärke gedrückt werden? Ca. 0,6 bis 1,4 V.
Nein
IC1301 und die entsprechenden Peripherieschaltkreise überprüfen.
Ja
Liegen Audiosignale an Stift (7) von IC301 und Stift (7) von IC302 an?
Nein
IC301, IC302 und die entsprechenden Peripherieschaltkreise überprüfen.
Ja
Liegt ein Audiosignal an Stift (3) von IC301 an?
Nein
Q301, den TB-Steckverbinder und die entsprechenden Peripherieschaltkreise überprüfen.
Ja
Liegen Audiosignal-Wellenformen an Stift (6) und (8) von IC1301 an?
Nein
IC301 und die entsprechenden Peripherieschaltkreise überprüfen.
Ja
Liegen Audiosignal-Wellenformen an Stift (1) und (2) des S-Steckverbinders an?
Ja
Defekter Lautsprecher. Den Lautsprecher ersetzen.

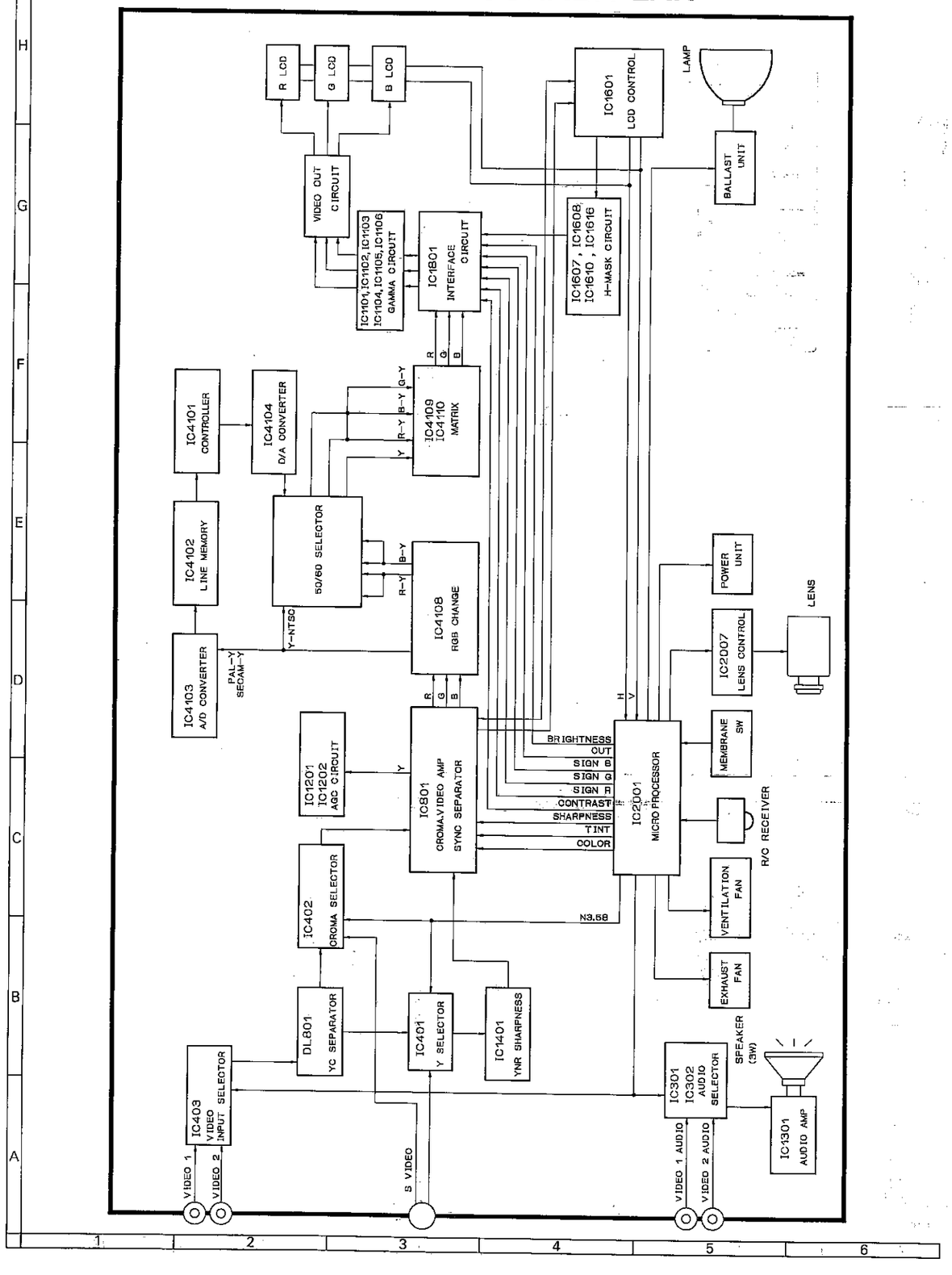
TABELLE FÜR STÖRUNGSSUCHE (fortgesetzt)


Lampe leuchtet nicht auf
Eine neue Lampe einbauen. Leuchtet die Lampe nun auf?
Nein
Ja
Lampe defekt. Durch ein Neuteil ersetzen.
Ist ein Entladungsgeräusch zu hören?
Ja
Nein
Q1701 defekt. Durch ein Neuteil ersetzen.
Liegen mehr als 200 V an C1707 an?
Ja
F701 defekt.
Nein
Ja
Liegen mehr als 12 V zwischen (1) und (2) von PS an?
Nein
Ja
F701 ersetzen, dann PL und PS entfernen. Die Stromversorgung einschalten. Leuchtet die LED blau auf?
Nein
Ja
Q1701 defekt. Durch ein Neuteil ersetzen.
Liegen mehr als 15 V an Stift (7) von IC1701 an?
Ja
TF1701 ersetzen.
Ja
Ist TF1701 geschlossen?
Nein
Defekt im Netzteil. Alle Ausgangsstifte der EA- und EF-Steckverbinder auf Kurzschluß und Spannungsabfall überprüfen.
IC2001 überprüfen.
Nein
Liegt mehr als 1 V zwischen (1) und (2) des D-Steckverbinders an?
Ja
PC1701 defekt. Durch ein Neuteil ersetzen.
Nein
Liegt mehr als 1 V zwischen (7) und (8) von CN101 an?
Ja
Die Zusatzplatine ersetzen bzw. die Innenteile überprüfen.

CHASSIS LAYOUT / CHASSISANORDNUNGSPLAN



BLOCK DIAGRAM / BLOCKSCHALTPLAN



DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 220V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 220V. Signals are fed by a color bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   - Ⓒ: Solid
   - Ⓢ: Oxide Film
   - Ⓝ: Metal Coating
   - Ⓦ: Cement
   - Ⓣ : Special

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=p, F=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   - (ML): Mylar
   - (PF): Polypro Film
   - (TA): Tantalum
   - (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTE:

1. *DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.*
2. *SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.*

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" (▒▒▒▒) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATICHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpukten bei einer Netzspannung von 220V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpukten werden bei einer Netzspannung von 220V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen. (K=kΩ=1000 Ω, M=MΩ).
2. Alle Widerstände haben ±5%, sofern nicht anders angegeben. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/10W, sofen nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofen nicht anders angegeben.
   - Ⓒ: Fest
   - Ⓢ: Oxidfilm
   - Ⓝ: Metallüberzug
   - Ⓦ: Zement
   - Ⓣ : Spezial

KONDENSATOR

1. Alle Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=p, F=μμF).
2. Alle Kondensatoren heben 50V, sofern nicht angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.
   - (ML): Mylar
   - (PF): Polyprofilm
   - (TA): Tantal
   - (ST): Styrol

ACHTUNG:
Bei diesem Schaltplan handlet es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihren bestehen.

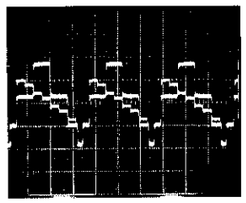
SICHERHEITSANMERKUNGEN:

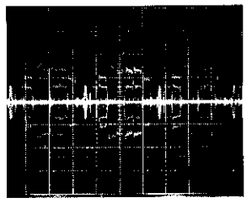
1. *VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.*
2. *DIE WARMEABLEITER DER HALBLEITER SOLLTEN BIÉIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.*

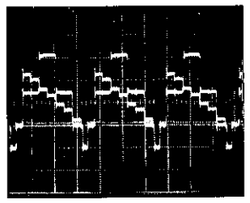
WICHTIGE SICHERHEITSANMERKUNGEN:

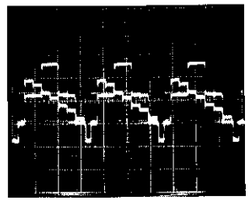
MIT "⚠" (▒▒▒▒) BEZEICHNTEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT. BEIM WECHDIESERTTEILE SOLLTEN DIE VORGSCHTIBENEN TILE IMMER VERWENDENT WERDEN, UM SOWOOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

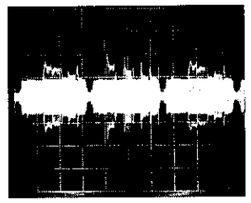
WAVEFORMS / WELLENFORMEN

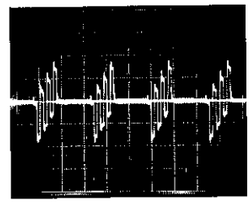

① 0.5V/div, 20µsec/div

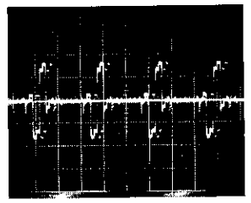

② 0.1V/div, 20µsec/div

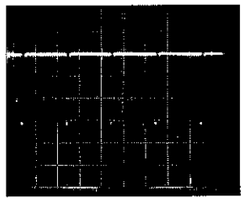

③ 0.2V/div, 20µsec/div

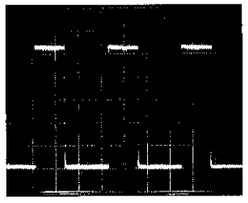

④ 0.5V/div, 20µsec/div

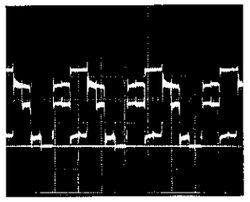

⑤ 50mV/div, 20µsec/div

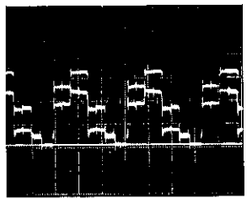

⑥ 0.2V/div, 50µsec/div

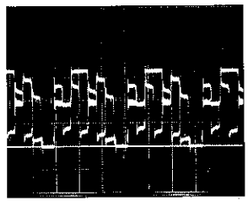

⑦ 0.2V/div, 50µsec/div

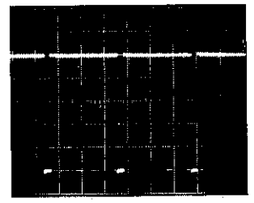

⑧ 0.5V/div, 10msec/div


⑨ 1V/div, 20µsec/div


⑩ 1V/div, 20µsec/div


⑪ 1V/div, 20µsec/div


⑫ 1V/div, 20µsec/div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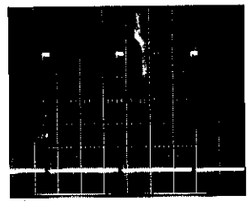
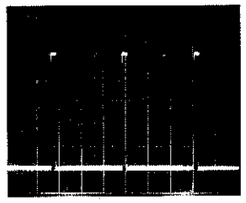
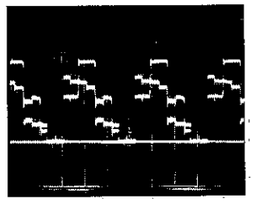

⑭ 1V/div, 20µsec/div


⑮ 1V/div, 20µsec/div

⑯ 1V/div, 20µsec/div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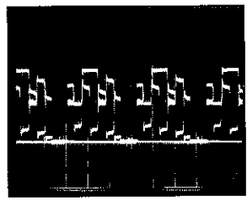
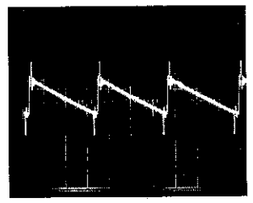
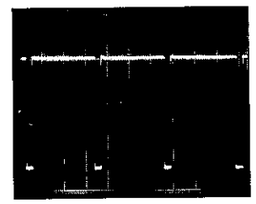
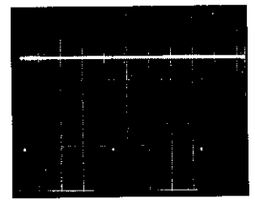
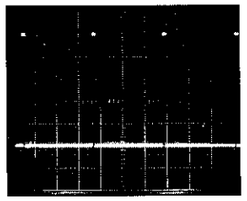

⑱ 1V/div, 20µsec/div


⑲ 0.1V/div, 20µsec/div


⑳ 1V/div, 20µsec/div


㉑ 1V/div, 5msec/div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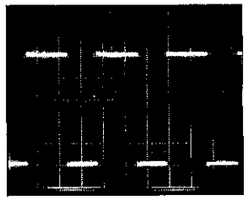
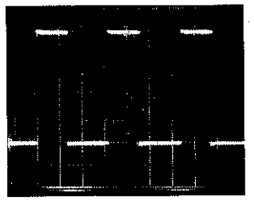

㉓ 1V/div, 20µsec/div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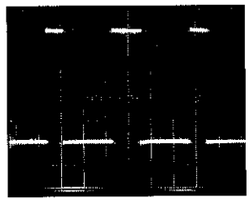
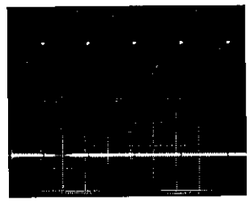
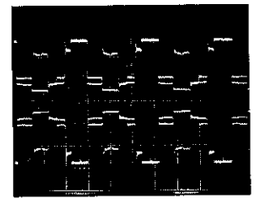
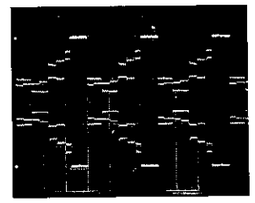
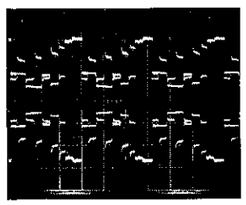
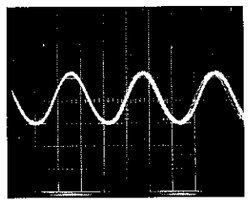

㉕ 1V/div, 10µsec/div

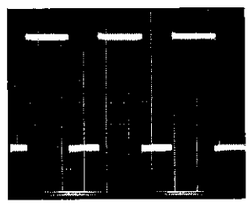

㉖ 1V/div, 10msec/div

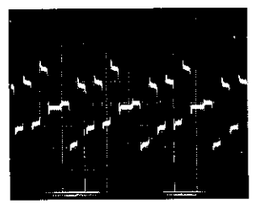

㉗ 2V/div, 20µsec/div

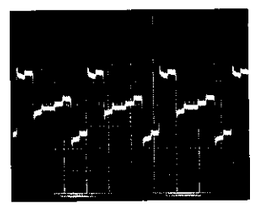

㉘ 2V/div, 20µsec/div

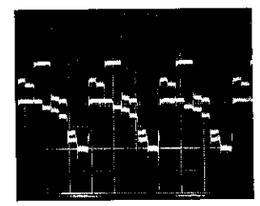

㉙ 2V/div, 20µsec/div

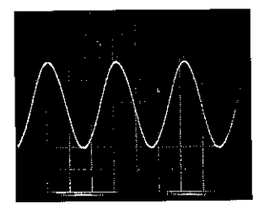

㉚ 0.5V/div, 50nsec/div


㉛ 1V/div, 20µsec/div

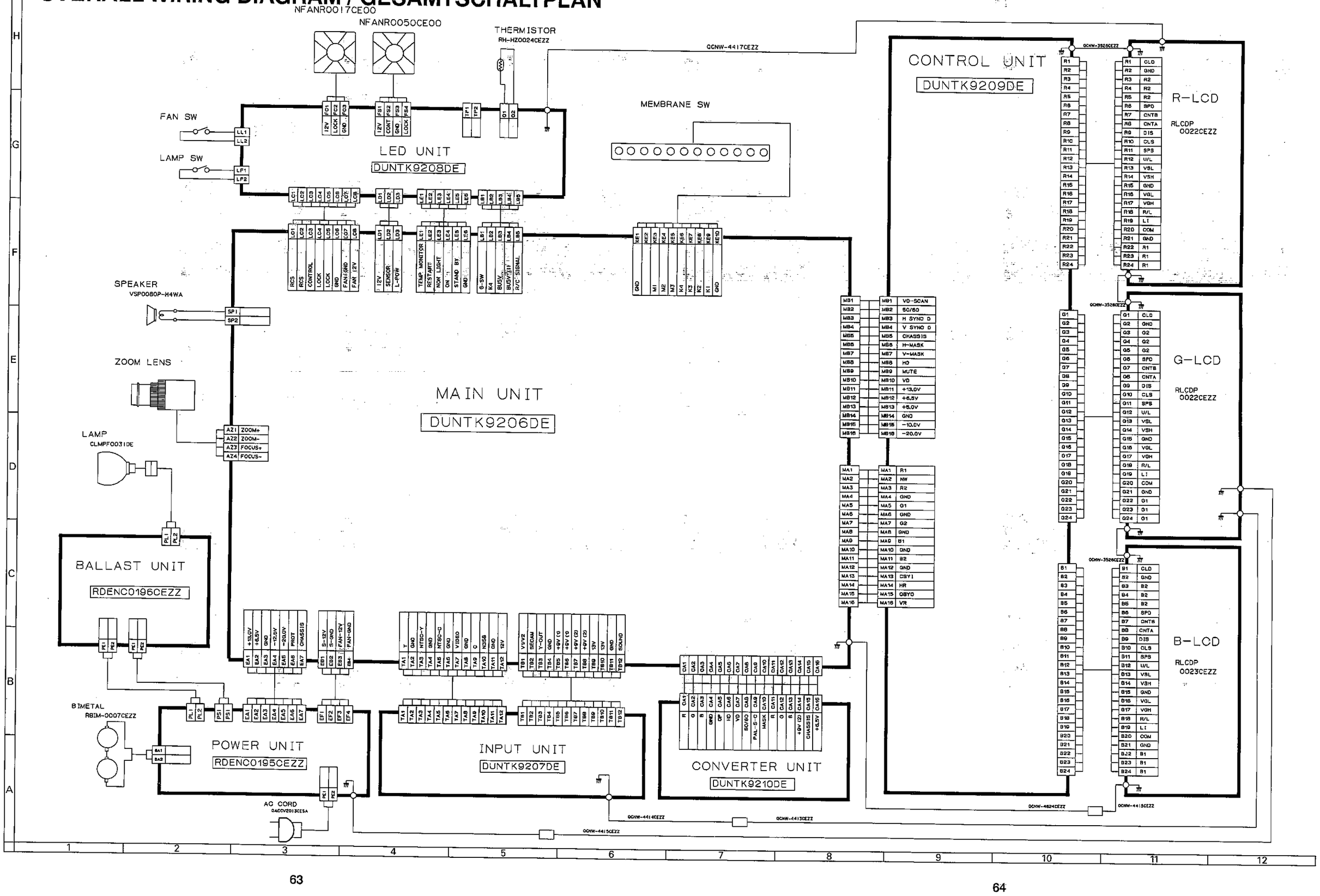

㉜ 0.2V/div, 20µsec/div


㉝ 0.2V/div, 20µsec/div


㉞ 0.2V/div, 20µsec/div

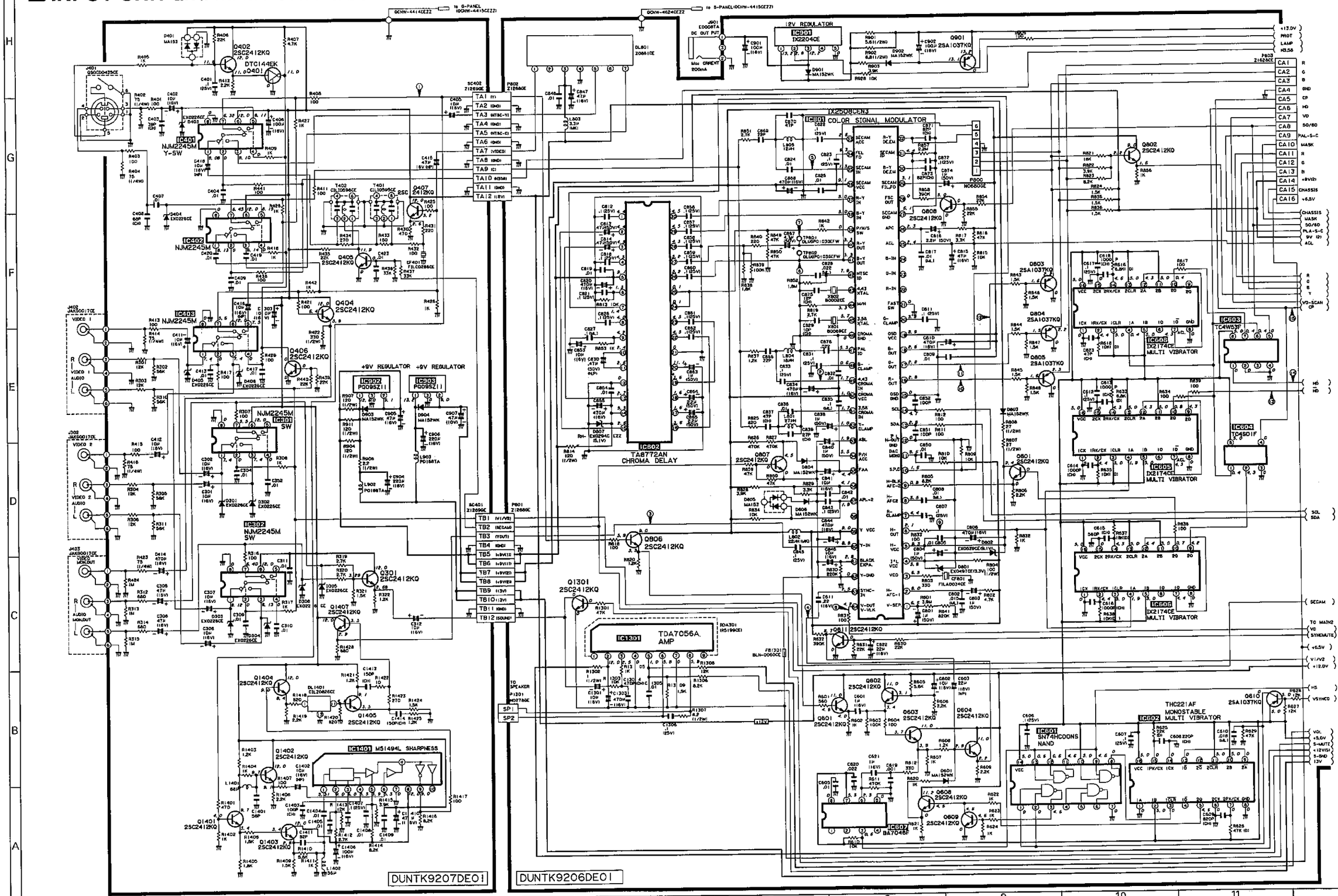

㉟ 1V/div, 20nsec/div

OVERALL WIRING DIAGRAM / GESAMTSCHALTPLAN

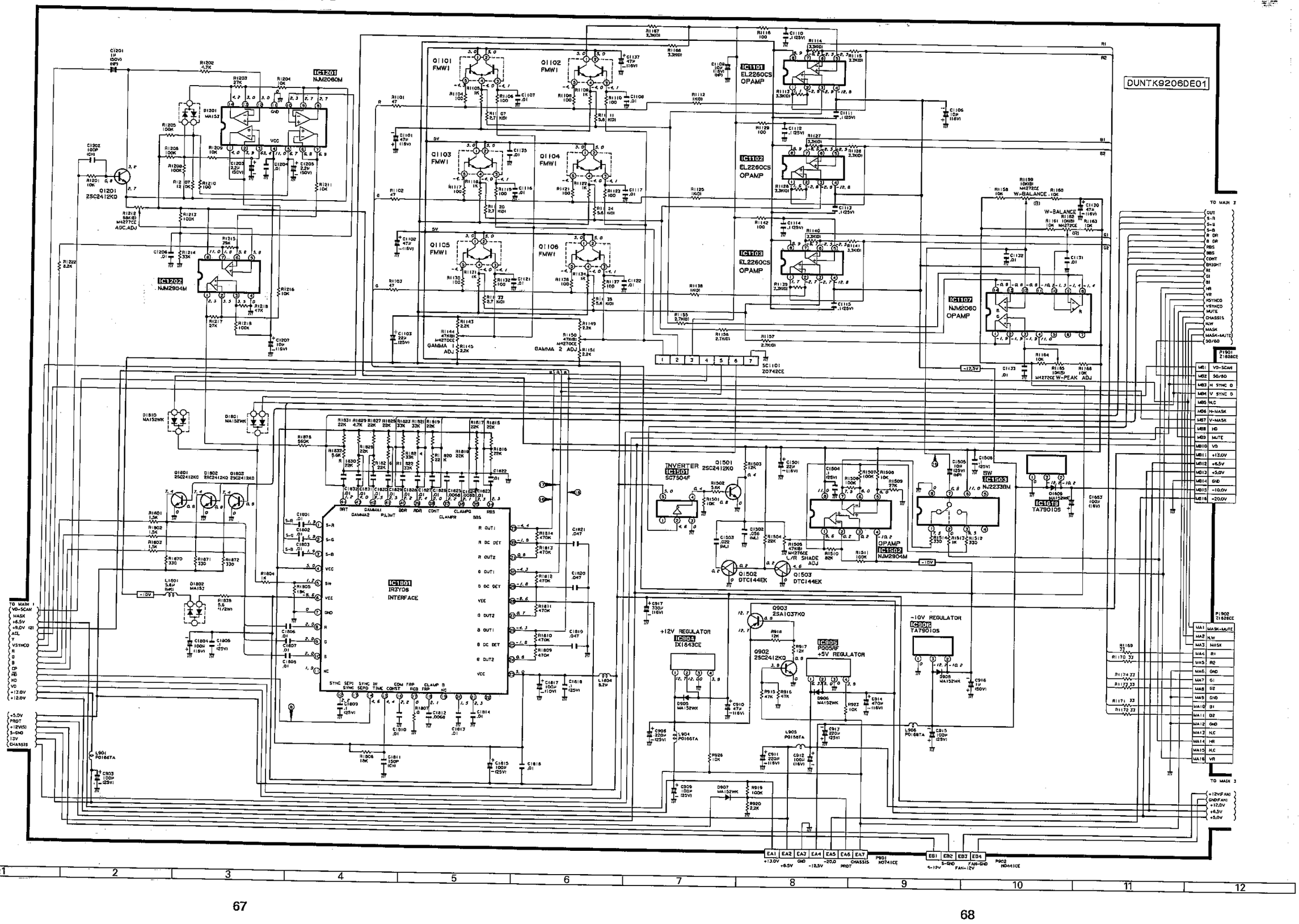


XV-380H	XV-380H

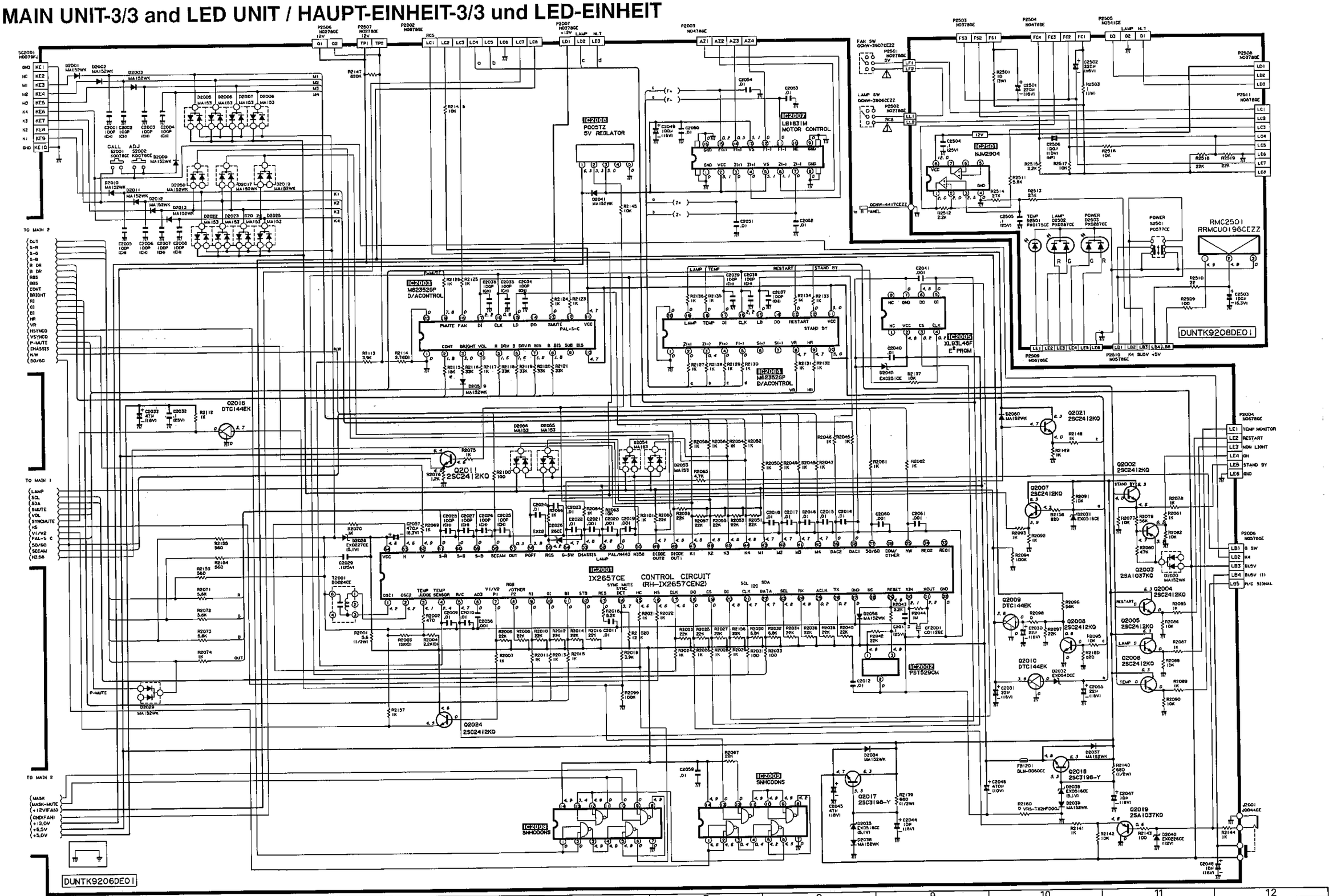
■ INPUT UNIT and MAIN UNIT-1/3 / EINGANGS-EINHEIT und HAUPT-EINHEIT-1/3



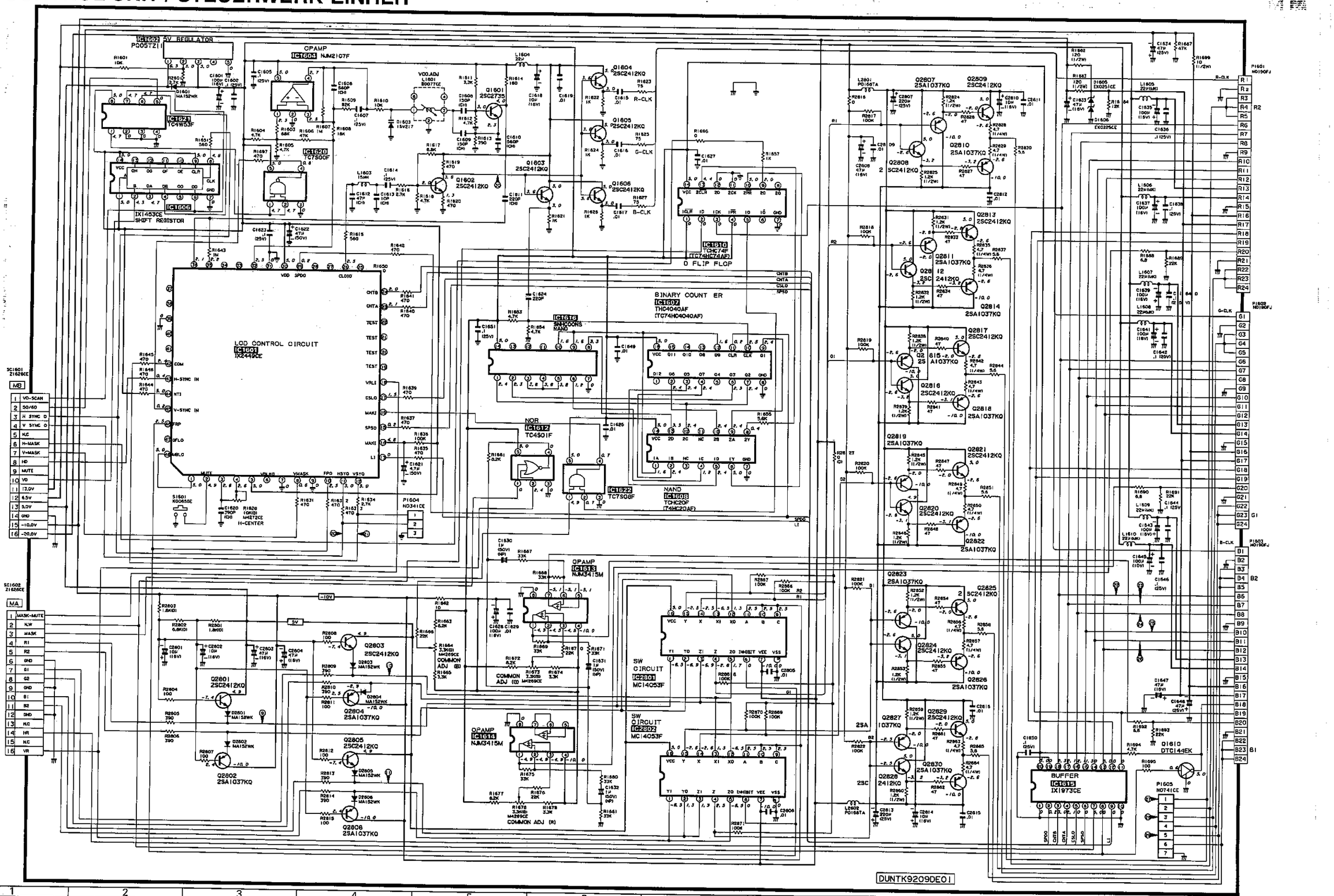
■ MAIN UNIT-2/3 / HAUPT-EINHEIT-2/3



■ MAIN UNIT-3/3 and LED UNIT / HAUPT-EINHEIT-3/3 und LED-EINHEIT

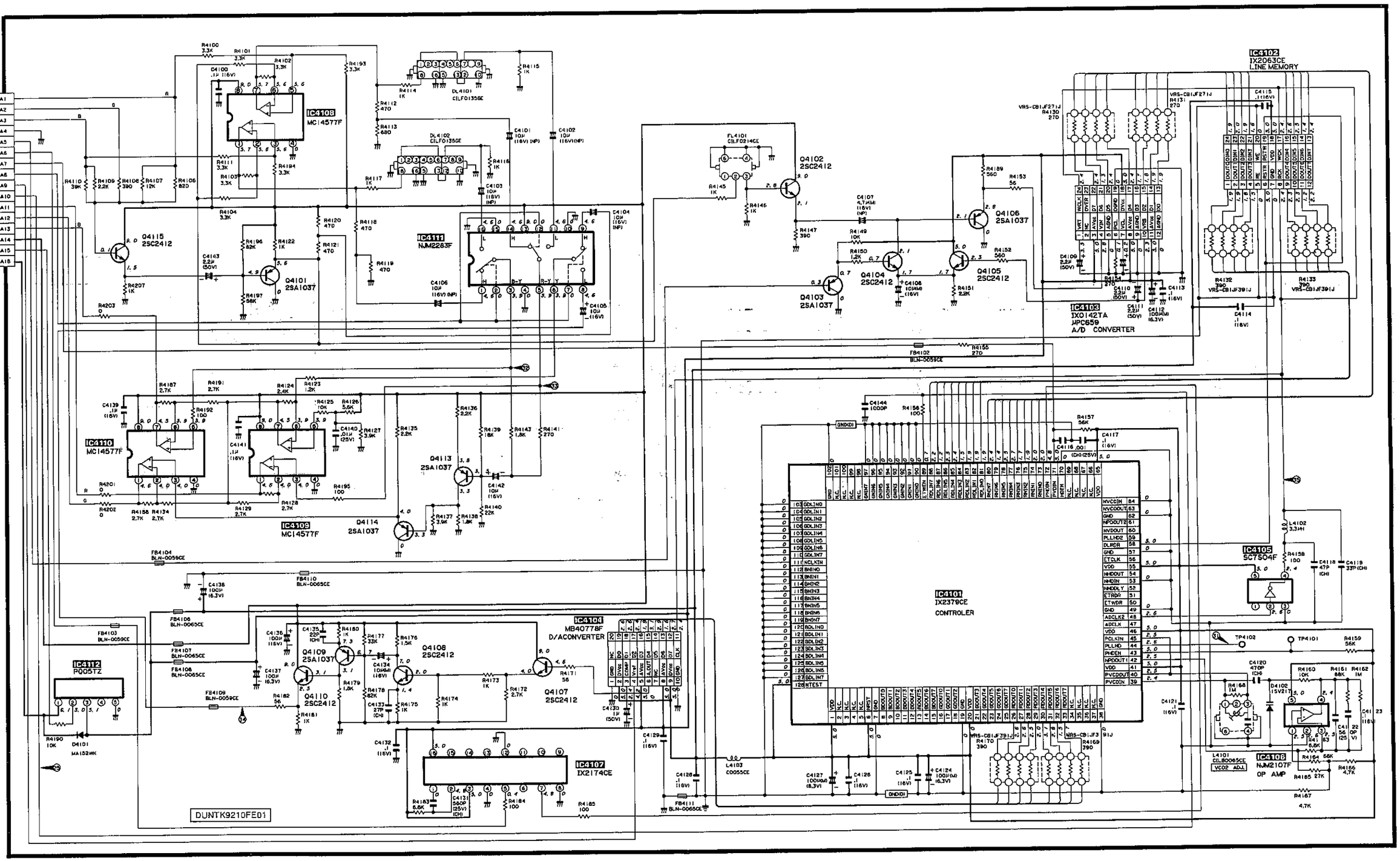


■ CONTROL UNIT / STEUERWERK-EINHEIT

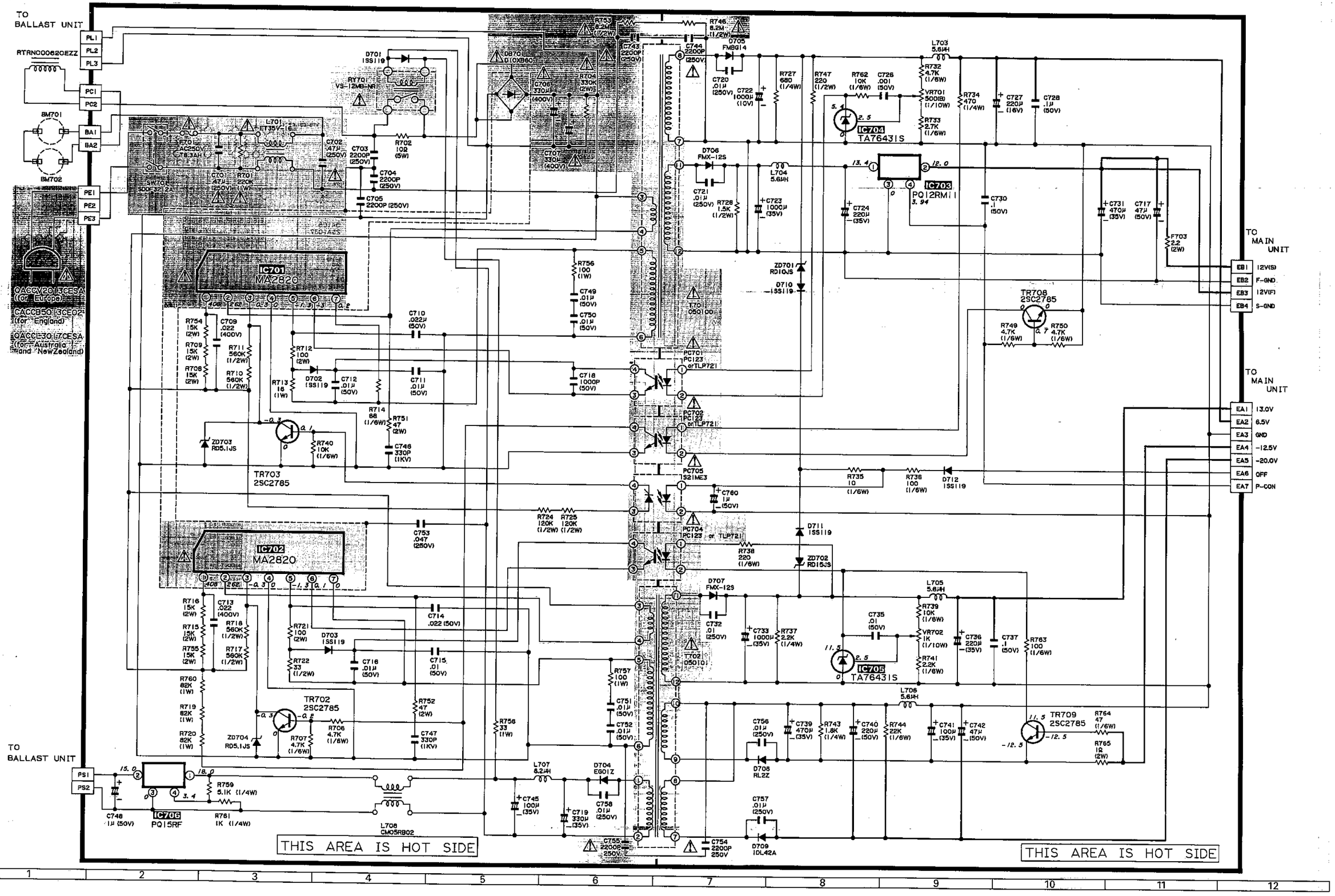


■ SCAN CONVERTER UNIT / ABTAST-KONVERTER-EINHEIT

All resistors are 1/16W, unless otherwise noted.
Alle Widerstände haben 1/16W, sofen nicht anders angegeben.

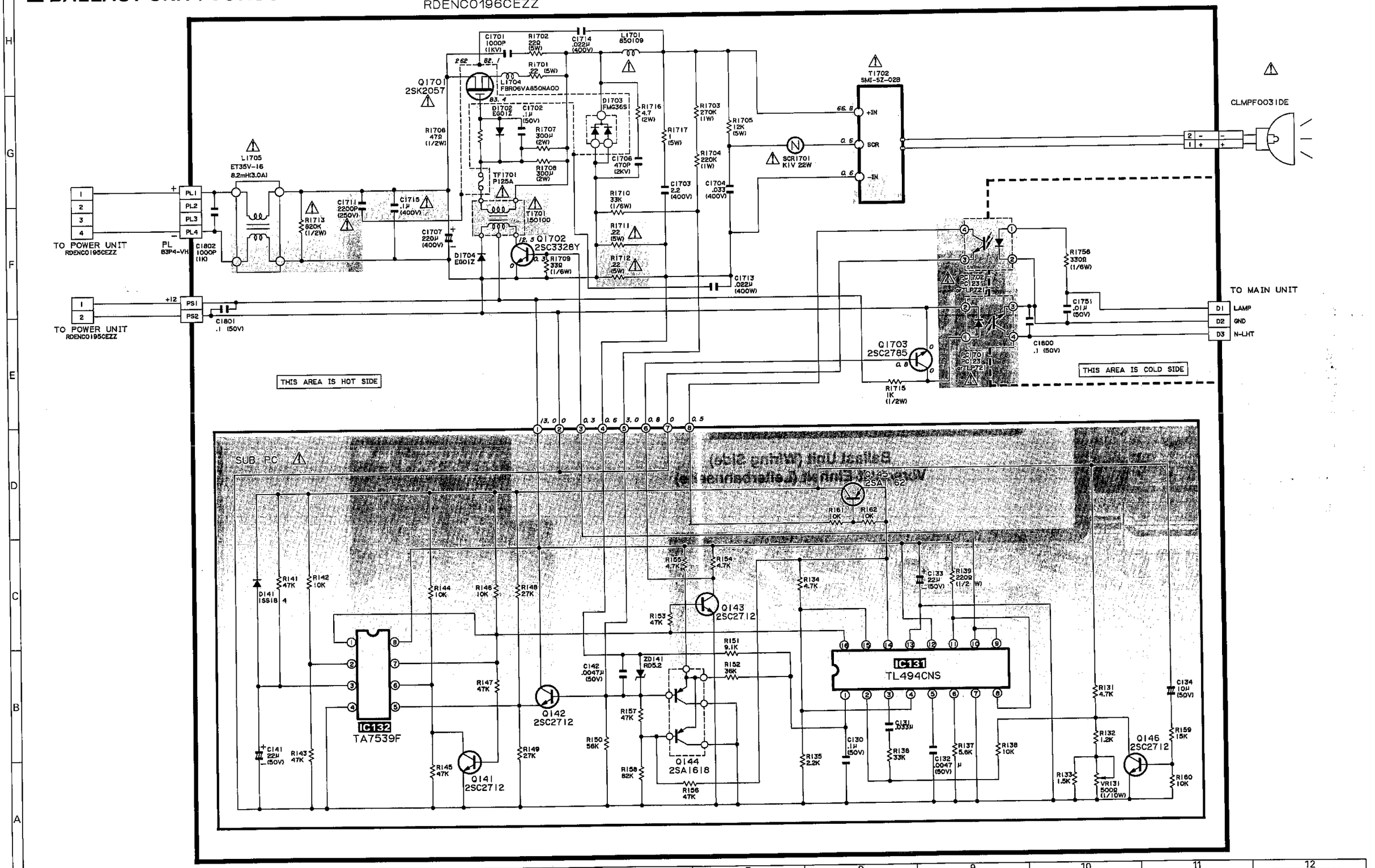


■ POWER UNIT / NETZ-EINHEIT

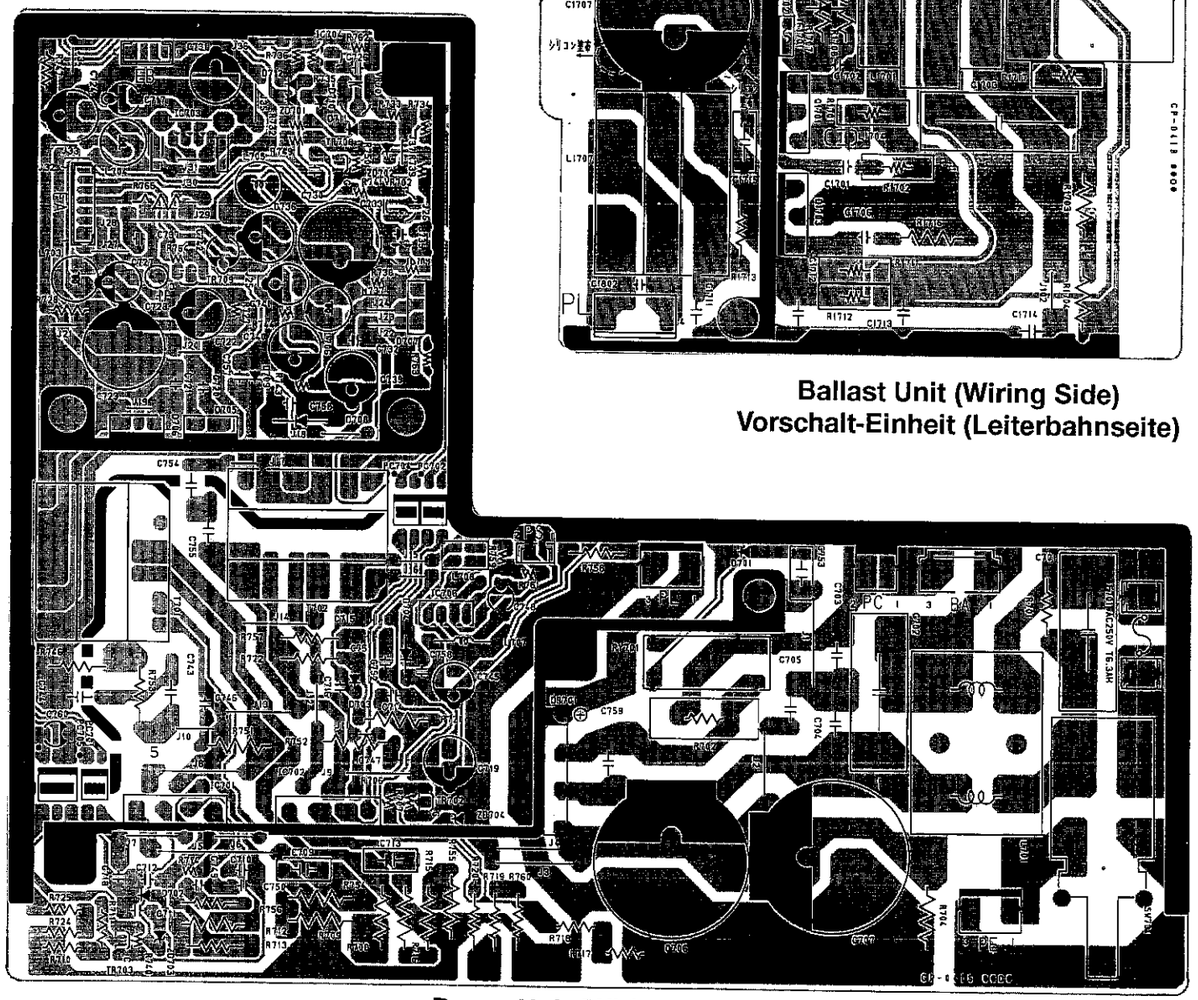


■ BALLAST UNIT / VORSCHALT-EINHEIT

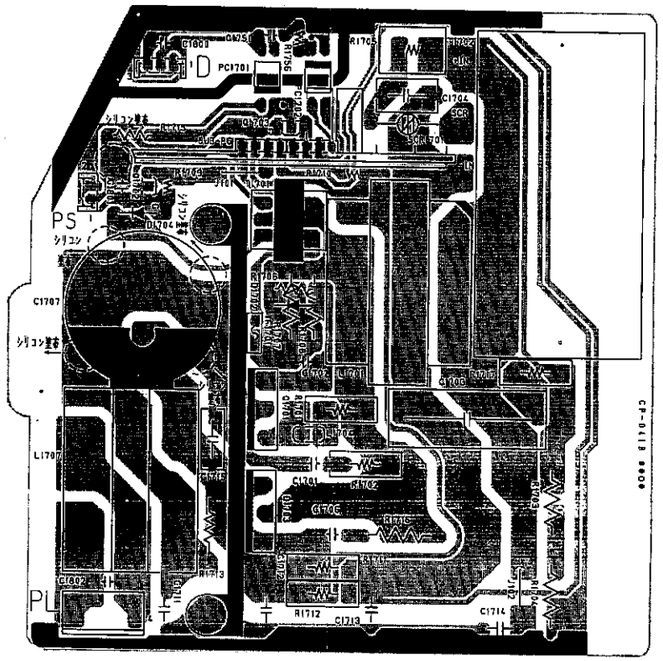
RDENC0196CEZZ



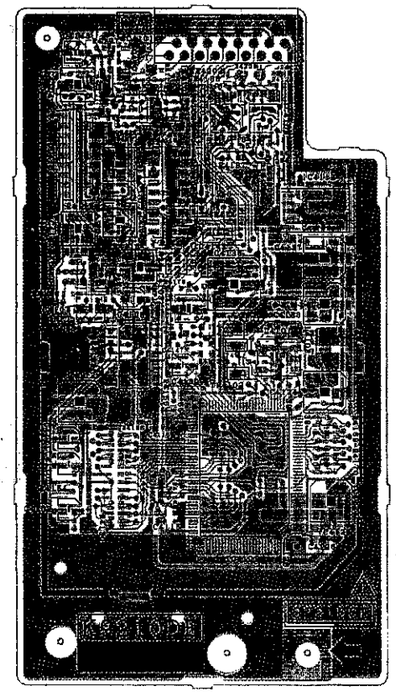
PRINTED WIRING BOARD ASSEMBLIES / LEITERPLATTENEINHEITEN



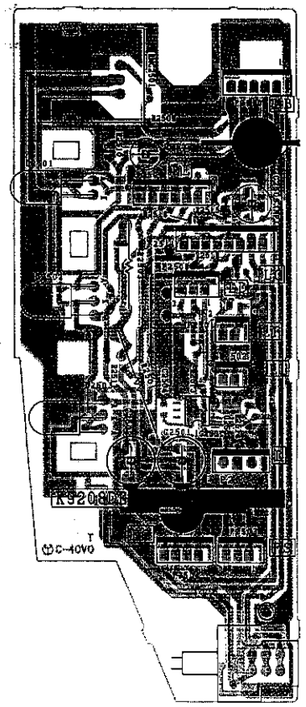
Power Unit (Wiring Side)
Netz-Einheit (Leiterbahnseite)



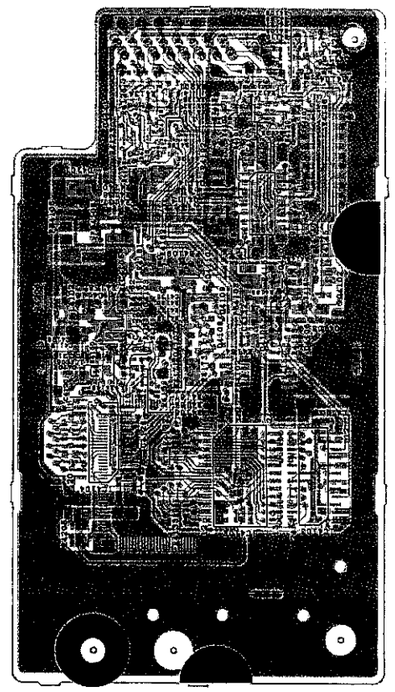
Ballast Unit (Wiring Side)
Vorschalt-Einheit (Leiterbahnseite)



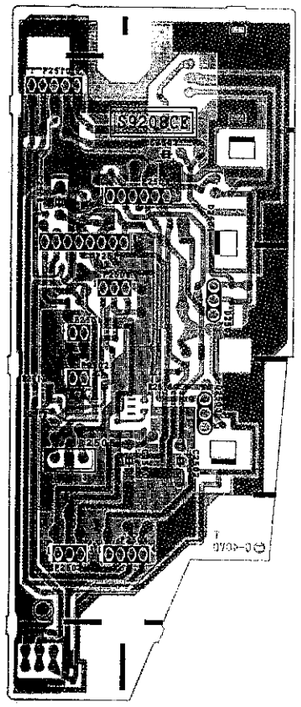
Scan Converter Unit (Component Side)
Abtast-Konverter-Einheit (Bestückungsseite)



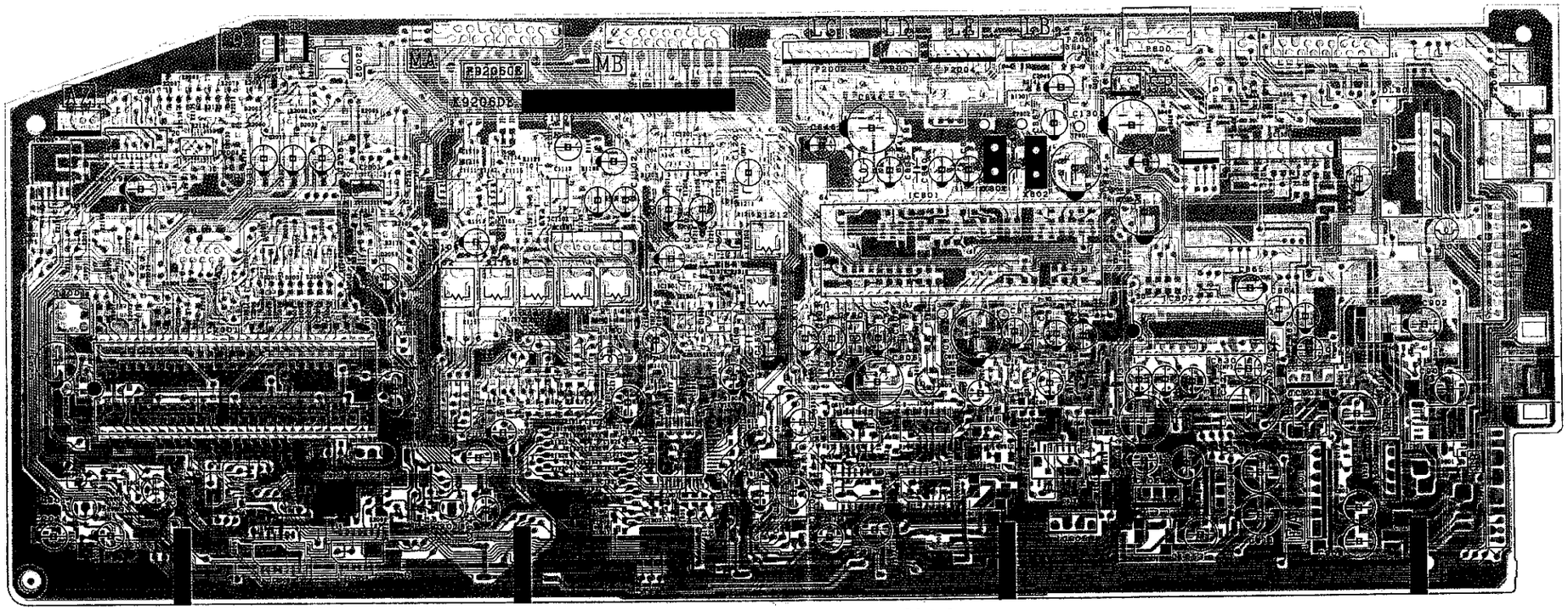
LED Unit (Component Side)
LED-Einheit (Bestückungsseite)



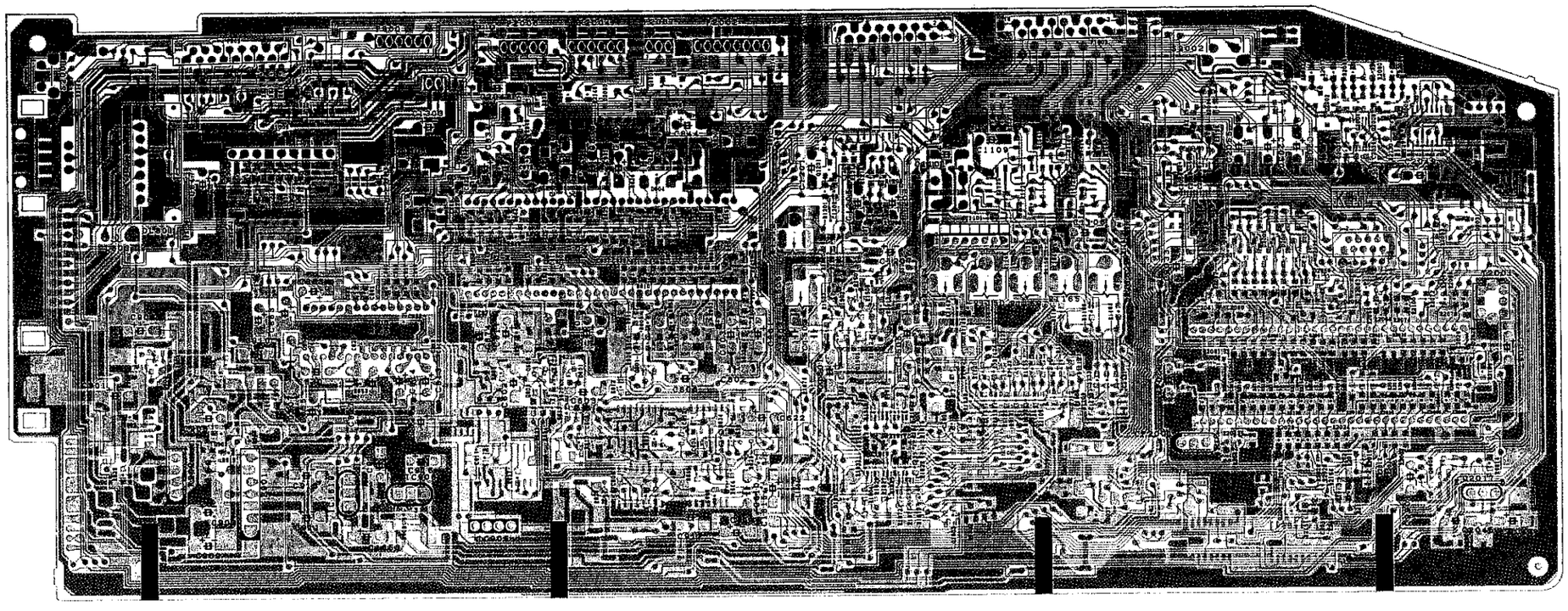
Scan Converter Unit (Wiring Side)
Abtast-Konverter-Einheit (Leiterbahnseite)



LED Unit (Wiring Side)
LED-Einheit (Leiterbahnseite)

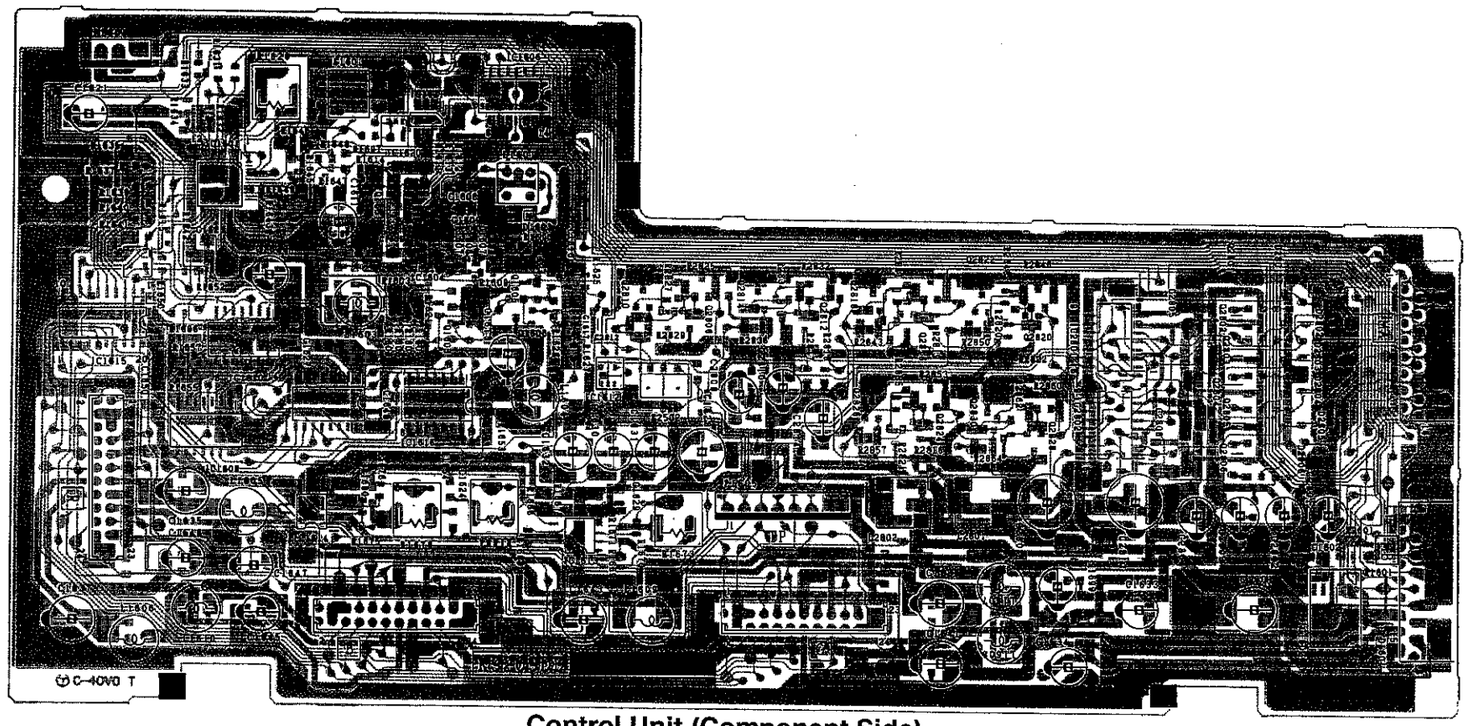


Main Unit (Component Side)
Haupt-Einheit (Bestückungsseite)

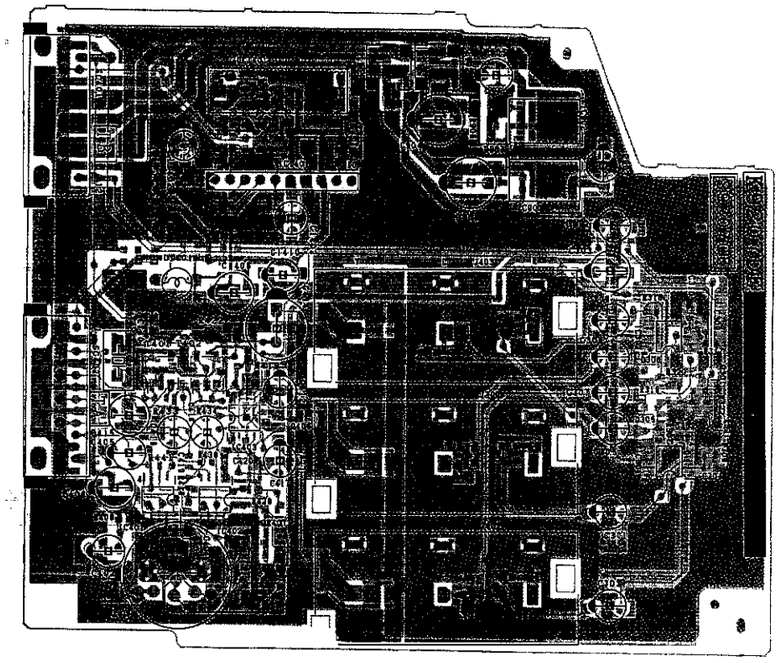


Main Unit (Wiring Side)
Haupt-Einheit (Leiterbahnseite)

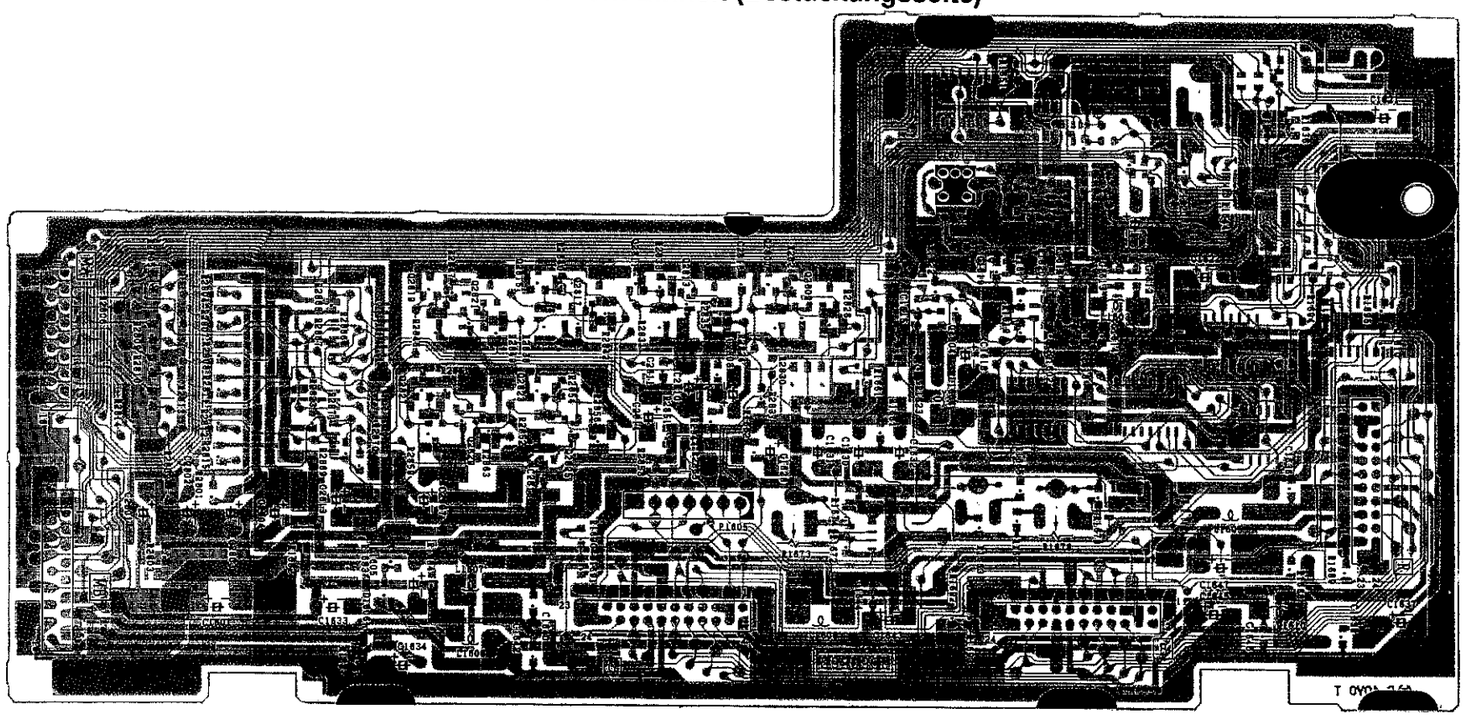
XV-380H	XV-380H



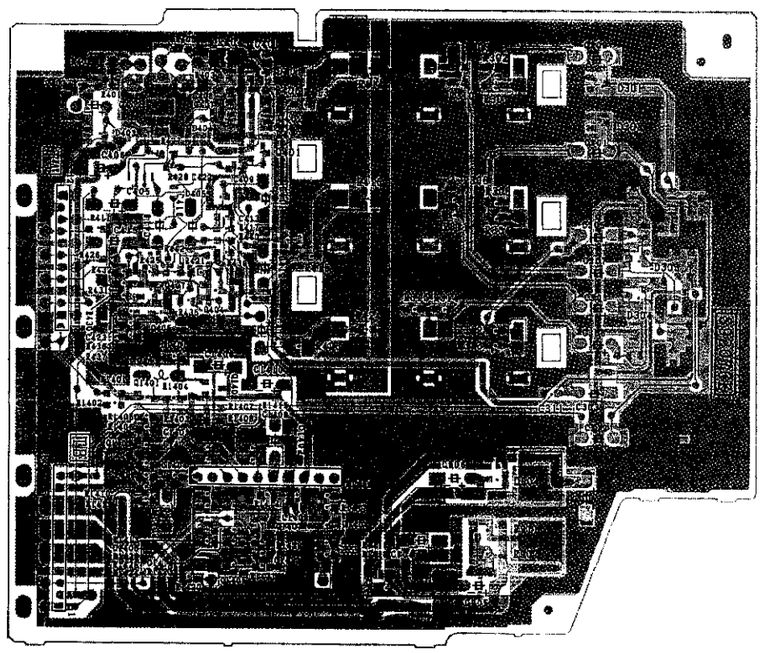
Control Unit (Component Side)
Steuerwerk-Einheit (Bestückungsseite)



Input Unit (Component Side)
Eingangs-Einheit (Bestückungsseite)



Control Unit (Wiring Side)
Steuerwerk-Einheit (Leiterbahnseite)



Input Unit (Wiring Side)
Eingangs-Einheit (Leiterbahnseite)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

MARK ★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

	DUNTK9206DE01	–	Main Unit	—
	DUNTK9207DE01	–	Input Unit	—
	DUNTK9208DE01	–	LED Unit	—
	DUNTK9209DE01	–	Control Unit	—
	DUNTK9210FE01	–	Scan Converter Unit	—
	RDENC0195CEZZ	–	Power Unit	—
	RDENC0196CEZZ	–	Ballast Unit	—

ASSEMBLY UNITS

	RLCDP0022CEZZ	J	LCD Module Unit (Red or Green)	DB
	RLCDP0023CEZZ	J	LCD Module Unit (Blue)	DB

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.
2. REF. NR.
3. ERSATZTEIL NR.
4. BESCHREIBUNG
5. KODE
6. QUANTITÄT

MARKIERUNG ★: ERSATZTEILE-LIEFERUNG

Ref. No.	Part No.	★	Description	Code

DUNTK9206DE01
MAIN UNIT

INTEGRATED CIRCUITS

IC601	VHiSNHC00NS-1	J	NAND	AC
IC602	VHiTHC221AF-1	J	Multi Vibrator	AG
IC603	VHiTC4W53F/-1	J	TC4W53F	AE
IC604	VHiTC4S01F/-1	J	TC4S01F	AC
IC605	RH-iX2174CEZZ	J	Multi Vibrator MC74HC4538FR	AG
IC606	RH-iX2174CEZZ	J	Multi Vibrator MC74HC4538FR	AG
IC607	VHiBA7046F/-1	J	BA7046F	AF
IC608	RH-iX2174CEZZ	J	Multi Vibrator MC74HC4538FR	AG
IC801	RH-iX2508CEN3	J	Colour Signal Modulator TA8880CN	BA
IC802	VHiTA8772AN-1	J	Chroma Delay	AV
IC901	RH-iX2204CEZZ	J	12V Regulator PQ12TZ11	AG
IC904	RH-iX1843CEZZ	J	+12V Regulator PQ12RF1	AF
IC905	VHiPQ05RF11-1	J	PQ05RF11	AF
IC906	VHiTA79010S-1	J	–10V Regulator	AE
IC1101	VHiEL2260CS-1	J	OP Amp.	AR
IC1102	VHiEL2260CS-1	J	OP Amp.	AR
IC1103	VHiEL2260CS-1	J	OP Amp.	AR
IC1107	VHiNJM2060M-1	J	OP Amp.	AE
IC1201	VHiNJM2060M-1	J	NJM2060M	AE
IC1202	VHiNJM2904M-1	J	NJM2904M	AE
IC1301	VHiTDA7056A-1	J	Amplifier	AP
IC1501	VHiSC7S04F/-1	J	Inverter	AC
IC1502	VHiNJM2904M-1	J	OP Amp.	AE
IC1503	VHiNJ2233BM-1	J	NJM2233BM	AE
IC1619	VHiTA79010S-1	J	TA79010S	AE
IC1801	VHiiR3Y08//-1	J	Interface	AS
IC2001	RH-iX2657CEN2	J	Control Circuit M37204MC-D75SP	BR

Ref. No.	Part No.	★	Description	Code

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IC2002	VHiPST529CM-1	J	PST529CMT	AE
IC2003	VHiM62352GP-1	J	D/A Control	AQ
IC2004	VHiM62352GP-1	J	D/A Control	AQ
IC2005	VHiXL93L46F-1	J	EEPROM	AG
IC2006	VHiPQ05TZ11-1	J	5V Regulator	AH
IC2007	VHiLB1831M/-1	J	Motor Control	AN
IC2008	VHiSNHC00NS-1	J	SN74HC00NS	AC
IC2009	VHiSNHC00NS-1	J	SN74HC00NS	AC

TRANSISTORS

Q601	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q602	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q603	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q604	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q608	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q609	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q610	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q611	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q802	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q803	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q804	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q805	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q806	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q807	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q808	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q901	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q902	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q903	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1101	VSFMW1/////-1	J	FMW1	AB
Q1102	VSFMW1/////-1	J	FMW1	AB
Q1103	VSFMW1/////-1	J	FMW1	AB
Q1104	VSFMW1/////-1	J	FMW1	AB
Q1105	VSFMW1/////-1	J	FMW1	AB
Q1106	VSFMW1/////-1	J	FMW1	AB
Q1201	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1301	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1501	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1502	VSDTC144EK/-1	J	DTC144EK	AB
Q1503	VSDTC144EK/-1	J	DTC144EK	AB
Q1801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1802	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1803	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2002	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2003	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2004	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2005	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2006	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2007	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2008	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2009	VSDTC144EK/-1	J	DTC144EK	AB
Q2010	VSDTC144EK/-1	J	DTC144EK	AB
Q2011	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2016	VSDTC144EK/-1	J	DTC144EK	AB
Q2017	VS2SC3198-Y-1	J	2SC3198-Y	AA
Q2018	VS2SC3198-Y-1	J	2SC3198-Y	AA
Q2019	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2021	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2024	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES

D601	VHDMA152WK/-1	J	Diode MA152WK	AA
D801	RH-EX0497CEZZ	J	Zener Diode 3.3V	AC
D802	RH-EX0539CEZZ	J	Zener Diode 9.1V	AB
D803	VHDMA152WK/-1	J	Diode MA152WK	AA
D804	VHDMA152WK/-1	J	Diode MA152WK	AA
D805	VHDMA153///-1	J	Diode MA153	AB
D806	VHDMA152WK/-1	J	Diode MA152WK	AA
D807	RH-EX0294CEZZ	J	Zener Diode 5.1V	AA
D901	VHDMA152WK/-1	J	Diode MA152WK	AA
D902	VHDMA152WK/-1	J	Diode MA152WK	AA
D905	VHDMA152WK/-1	J	Diode MA152WK	AA
D906	VHDMA152WK/-1	J	Diode MA152WK	AA
D907	VHDMA152WK/-1	J	Diode MA152WK	AA
D908	VHDMA152WK/-1	J	Diode MA152WK	AA
D1201	VHDMA153///-1	J	Diode MA153	AB
D1609	VHDMA152WK/-1	J	Diode MA152WK	AA
D1801	VHDMA152WK/-1	J	Diode MA152WK	AA
D1802	VHDMA153///-1	J	Diode MA153	AB
D1810	VHDMA152WK/-1	J	Diode MA152WK	AA
D2001	VHDMA152WK/-1	J	Diode MA152WK	AA
D2002	VHDMA152WK/-1	J	Diode MA152WK	AA
D2003	VHDMA152WK/-1	J	Diode MA152WK	AA
D2005	VHDMA153///-1	J	Diode MA153	AB
D2006	VHDMA153///-1	J	Diode MA153	AB
D2007	VHDMA153///-1	J	Diode MA153	AB
D2008	VHDMA153///-1	J	Diode MA153	AB
D2009	VHDMA152WK/-1	J	Diode MA152WK	AA
D2010	VHDMA152WK/-1	J	Diode MA152WK	AA
D2011	VHDMA152WK/-1	J	Diode MA152WK	AA
D2012	VHDMA152WK/-1	J	Diode MA152WK	AA
D2013	VHDMA152WK/-1	J	Diode MA152WK	AA
D2017	VHDMA152WK/-1	J	Diode MA152WK	AA
D2019	VHDMA152WK/-1	J	Diode MA152WK	AA
D2022	VHDMA153///-1	J	Diode MA153	AB
D2023	VHDMA153///-1	J	Diode MA153	AB
D2024	VHDMA153///-1	J	Diode MA153	AB
D2025	VHDMA153///-1	J	Diode MA153	AB
D2026	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D2028	RH-EX0227CEZZ	J	Zener Diode	AB
D2029	VHDMA152WK/-1	J	Diode MA152WK	AA
D2030	VHDMA152WK/-1	J	Diode MA152WK	AA
D2031	RH-EX0516CEZZ	J	Zener Diode 5.1V	AB
D2032	RH-EX0540CEZZ	J	Zener Diode	AB
D2034	VHDMA152WK/-1	J	Diode MA152WK	AA
D2035	RH-EX0516CEZZ	J	Zener Diode 5.1V	AB
D2036	VHDMA152WK/-1	J	Diode MA152WK	AA
D2037	VHDMA152WK/-1	J	Diode MA152WK	AA
D2038	RH-EX0516CEZZ	J	Zener Diode 5.1V	AB

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Ref. No.	Part No.	★	Description	Code
D2039	VHDMA152WK/-1	J	Diode MA152WK	AA
D2040	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D2041	VHDMA152WK/-1	J	Diode MA152WK	AA
D2045	RH-EX0251CEZZ	J	Zener Diode	AB
D2050	VHDMA152WK/-1	J	Diode MA152WK	AA
D2053	VHDMA153///-1	J	Diode MA153	AB
D2054	VHDMA153///-1	J	Diode MA153	AB
D2055	VHDMA153///-1	J	Diode MA153	AB
D2056	VHDMA153///-1	J	Diode MA153	AB
D2058	VHDMA152WK/-1	J	Diode MA152WK	AA
D2059	VHDMA152WK/-1	J	Diode MA152WK	AA
D2060	VHDMA152WK/-1	J	Diode MA152WK	AA

PACKAGED CIRCUITS

X801	RCRSB0069CEZZ	J	Crystal 3.58MHz	AG
X802	RCRSB0002CEZZ	J	Crystal 4.43MHz	AM

COIL AND TRANSFORMERS

CF801	RFiLA0034CEZZ	J	Ceramic Filter	AD
CF2001	RFiLC0112GEZZ	J	Ceramic Filter	AC
DL801	RCiLZ0861CEZZ	J	Delay Line	AT
L801	VP-1M270J3R8N	J	Peaking 27µH	AC
L802	VP-MK220K0000	J	Peaking 22µH	AB
L803	VP-MK3R3K0000	J	Peaking 3.3µH	AB
L804	VP-1M180J2R5N	J	Peaking 18µH	AC
L805	VP-1M120J1R9N	J	Peaking 12µH	AC
L901	RCiLP0168TAZZ	J	COIL	AF
L904	RCiLP0168TAZZ	J	COIL	AF
L905	RCiLP0168TAZZ	J	COIL	AF
L906	RCiLP0168TAZZ	J	COIL	AF
L1801	VP-MK5R6K0000	J	Peaking 5.6µH	AB
L1804	VP-1M8R2J1R5N	J	Peaking 8.2µH	AC
T2001	RCiLB0024CEZZ	J	Oscillation Coil	AD

CONTROLS

R1144	RVR-M4270CEZZ	J	47k(B)	Gamma 1	AC
R1150	RVR-M4270CEZZ	J	47k(B)	Gamma 2	AC
R1159	RVR-M4272CEZZ	J	10k(B)	White Balance	AC
R1162	RVR-M4272CEZZ	J	10k(B)	White Balance	AC
R1165	RVR-M4272CEZZ	J	10k(B)	White Peak	AC
R1212	RVR-M4277CEZZ	J	68k(B)	AGC	AD
R1505	RVR-M4276CEZZ	J	47k(B)	L/R Shade	AC

CAPACITORS

C601	VCKYTQ1CB105K	J	1	16V	Ceramic	AC
C602	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C603	VCE9GA1CW106M	J	10	16V	Elect. (N.P)	AB
C605	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C606	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C607	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C608	VCCCTV1HH221J	J	220p	50V	Ceramic	AA
C609	VCCCTV1HH821J	J	820p	50V	Ceramic	AB
C610	VCQYTA1HM183J	J	0.018	50V	Mylar	AB
C611	VCKYTQ1HF224Z	J	0.22	50V	Ceramic	AB
C612	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C613	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C614	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C615	VCCCTV1HH561J	J	560p	50V	Ceramic	AA
C616	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C617	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C618	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C619	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C620	VCKYTV1HB223K	J	0.022	50V	Ceramic	AB
C621	VCKYTQ1CB105K	J	1	16V	Ceramic	AC
C622	VCEAGA1CW226M	J	22	16V	Electrolytic	AB
C623	VCCCTV1HH470J	J	47p	50V	Ceramic	AA
C801	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C802	VCQYTA1HM153J	J	0.015	50V	Mylar	AA
C803	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C804	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C805	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C806	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C807	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C808	VCQYTA1HM103J	J	0.01	50V	Mylar	AA
C809	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C810	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C811	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C812	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C813	VCEAGA1HW474M	J	0.47	50V	Electrolytic	AA
C814	VCEAGA1HW474M	J	0.47	50V	Electrolytic	AA
C815	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C816	VCEAGA1HW225M	J	2.2	50V	Electrolytic	AB
C817	VCQYTA1HM103J	J	0.01	50V	Mylar	AA
C818	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C819	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C820	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C821	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C822	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C823	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C824	VCKYTV1HF103Z	J	0.01	50V	Ceramic	AA
C825	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C826	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C827	VCQYTA1HM104J	J	0.1	50V	Mylar	AA
C828	VCQYTA1HM223J	J	0.022	50V	Mylar	AA
C829	VCCCTV1HH100D	J	10p	50V	Ceramic	AA
C830	VCE9GA1HW474M	J	0.47	50V	Elect. (N.P)	AB
C831	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C832	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C833	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C834	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C835	VCQYTA1HM104J	J	0.1	50V	Mylar	AA
C836	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C837	VCCCTV1HH470J	J	47p	50V	Ceramic	AA
C838	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C839	VCCCTV1HH270J	J	27p	50V	Ceramic	AA
C840	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C841	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C842	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C843	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB

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Ref. No.	Part No.	★	Description			Code
C844	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C845	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C846	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C847	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C848	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C850	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C851	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C852	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C853	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C854	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C855	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C856	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C857	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C858	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C859	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C860	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C861	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C862	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C863	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C864	VCEAGA1HW225M	J	2.2	50V	Electrolytic	AB
C865	VCEAGA1HW225M	J	2.2	50V	Electrolytic	AB
C866	VCCCTV1HH220J	J	22p	50V	Ceramic	AA
C867	VCEAGA1HW475M	J	4.7	50V	Electrolytic	AB
C868	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C869	VCCCTV1HH220J	J	22p	50V	Ceramic	AA
C870	VCCCTV1HH470J	J	47p	50V	Ceramic	AA
C871	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C872	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C873	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C874	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C875	VCCCTV1HH120J	J	12p	50V	Ceramic	AA
C876	VCKYTV1HB223K	J	0.022	50V	Ceramic	AB
C901	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C902	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C903	VCEAGA1EW107M	J	100	25V	Electrolytic	AD
C908	VCEAGA1EW227M	J	220	25V	Electrolytic	AC
C909	VCEAGA1EW107M	J	100	25V	Electrolytic	AD
C910	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C911	VCEAGA1CW227M	J	220	16V	Electrolytic	AC
C912	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C913	VCEAGA1EW227M	J	220	25V	Electrolytic	AC
C914	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C915	VCEAGA1EW107M	J	100	25V	Electrolytic	AD
C916	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C917	VCEAGA1CW337M	J	330	16V	Electrolytic	AC
C1101	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1102	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1103	VCEAGA1EW226M	J	22	25V	Electrolytic	AA
C1106	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C1107	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1108	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1109	VCE9GA1CW106M	J	10	16V	Elect. (N.P)	AB
C1110	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1111	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1112	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1113	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1114	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1115	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1116	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1117	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1121	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1122	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1130	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1131	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1132	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1133	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1135	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1137	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1201	VCE9GA1HW105M	J	1	50V	Elect. (N.P)	AB
C1202	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C1203	VCEAGA1HW225M	J	2.2	50V	Electrolytic	AB
C1204	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1205	VCEAGA1HW225M	J	2.2	50V	Electrolytic	AB
C1206	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1207	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C1301	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C1303	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C1304	VCCCTV1HH471J	J	470p	50V	Ceramic	AA
C1305	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1306	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1501	VCEAGA1CW226M	J	22	16V	Electrolytic	AB
C1502	VCQYTA1HM563J	J	0.056	50V	Mylar	AB
C1503	VCQYTA1HM223J	J	0.022	50V	Mylar	AA
C1504	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1505	VCE9GA1EW106M	J	10	25V	Elect. (N.P)	AB
C1506	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1653	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1801	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1802	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1803	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1804	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1805	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1806	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1807	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1808	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1809	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1810	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1811	VCCCTV1HH151J	J	150p	50V	Ceramic	AA
C1812	VCKYTV1HB682K	J	6800p	50V	Ceramic	AA
C1813	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1814	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1815	VCEAGA1EW107M	J	100	25V	Electrolytic	AD
C1816	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1817	VCEAGA1AW107M	J	100	10V	Electrolytic	AB
C1818	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1819	VCFYEC1CM473J	J	0.047	16V	M. Polyester	AC
C1820	VCFYEC1CM473J	J	0.047	16V	M. Polyester	AC
C1821	VCFYEC1CM473J	J	0.047	16V	M. Polyester	AC
C1822	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C1823	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1824	VCKYTV1HB682K	J	6800p	50V	Ceramic	AA
C1825	VCKYTV1HB682K	J	6800p	50V	Ceramic	AA
C1826	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1827	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1828	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1829	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1830	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1831	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1832	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2001	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2002	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2003	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2004	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2005	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2006	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2007	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2008	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2009	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2010	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2011	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2012	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2013	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2014	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2015	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2016	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2017	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2018	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2019	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2020	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2021	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2022	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2023	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2024	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2025	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2026	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2027	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2028	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2029	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2030	VCEAGA1CW226M	J	22	16V	Electrolytic	AB
C2031	VCEAGA1CW226M	J	22	16V	Electrolytic	AB
C2032	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2033	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C2034	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2035	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2036	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2037	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2038	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2039	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2040	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2041	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2044	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C2045	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C2046	VCEAGA1AW477M	J	470	10V	Electrolytic	AC
C2047	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C2048	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C2049	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C2050	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2051	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2052	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2053	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2054	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2055	VCEAGA1CW226M	J	22	16V	Electrolytic	AB
C2056	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2057	VCEAGA0JW477M	J	470	6.3V	Electrolytic	AB
C2059	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2060	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2061	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA

RESISTORS

R601	VRS-TV1JD561J	J	560	1/10W	Metal Oxide	AA
R602	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R603	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R604	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R605	VRS-TV1JD562J	J	5.6k	1/10W	Metal Oxide	AA
R606	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R607	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R608	VRS-TV1JD122J	J	1.2k	1/10W	Metal Oxide	AA
R609	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R610	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R611	VRS-TV1JD474J	J	470k	1/10W	Metal Oxide	AA
R612	VRS-TV1JD331J	J	330	1/10W	Metal Oxide	AA
R616	VRN-TV1JD682D	J	6.8k	1/10W	Metal Film	AA
R617	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R618	VRN-TV1JD103D	J	10k	1/10W	Metal Film	AB
R620	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R621	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R622	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R623	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R624	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R625	VRN-TV1JD223D	J	22k	1/10W	Metal Film	AB
R626	VRN-TV1JD473D	J	47k	1/10W	Metal Film	AB
R627	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R628	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R629	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R630	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R631	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R632	VRS-TV1JD394J	J	390k	1/10W	Metal Oxide	AA
R633	VRN-TV1JD682D	J	6.8k	1/10W	Metal Film	AA
R634	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R635	VRN-TV1JD103D	J	10k	1/10W	Metal Film	AB
R636	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R637	VRN-TV1JD183D	J	18k	1/10W	Metal Film	AA
R638	VRN-TV1JD103D	J	10k	1/10W	Metal Film	AB
R639	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R801	VRS-TV1JD395J	J	3.9M	1/10W	Metal Oxide	AA
R802	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R803	VRS-TV1JD331J	J	330	1/10W	Metal Oxide	AA
R804	VRS-TX2HF101J	J	100	1/2W	Metal Oxide	AA

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Ref. No.	Part No.	★	Description	Code
R805	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R806	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R807	VRS-TX2HF270J	J	27 1/2W Metal Oxide	AB
R808	VRS-TX2HF270J	J	27 1/2W Metal Oxide	AB
R809	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R810	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R811	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R812	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R813	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R814	VRS-TX2HF121J	J	120 1/2W Metal Oxide	AB
R815	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R816	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R817	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R818	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R819	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R820	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R821	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R822	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R823	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R824	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R825	VRS-TV1JD821J	J	820 1/10W Metal Oxide	AA
R826	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R827	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R828	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R829	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R830	VRS-TV1JD224J	J	220k 1/10W Metal Oxide	AA
R831	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R832	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R833	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R834	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R835	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R836	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R837	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R838	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R839	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R840	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R841	VRS-TV1JD824J	J	820k 1/10W Metal Oxide	AA
R842	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R843	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R844	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R845	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R846	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R847	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R848	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R849	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R850	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R851	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R852	VRS-TV1JD185J	J	1.8M 1/10W Metal Oxide	AA
R853	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R854	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R855	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R856	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R857	VRS-TV1JD225J	J	2.2M 1/10W Metal Oxide	AA
R858	VRS-TV1JD394J	J	390k 1/10W Metal Oxide	AA
R859	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R860	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R901	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R902	VRS-TX2HF6R8J	J	6.8 1/2W Metal Oxide	AA
R903	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R905	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R915	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R916	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R917	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R918	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R919	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R920	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R923	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R926	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R928	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1101	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R1102	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R1103	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R1104	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1105	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1106	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1107	VRN-TV1JD272D	J	2.7k 1/10W Metal Film	AA
R1108	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1109	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1110	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1111	VRN-TV1JD562D	J	5.6k 1/10W Metal Film	AA
R1112	VRN-TV1JD102D	J	1k 1/10W Metal Film	AA
R1113	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1114	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1115	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1116	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1117	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1118	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1119	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1120	VRN-TV1JD272D	J	2.7k 1/10W Metal Film	AA
R1121	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1122	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1123	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1124	VRN-TV1JD562D	J	5.6k 1/10W Metal Film	AA
R1125	VRN-TV1JD102D	J	1k 1/10W Metal Film	AA
R1126	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1127	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1128	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1129	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1130	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1131	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1132	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1133	VRN-TV1JD272D	J	2.7k 1/10W Metal Film	AA
R1134	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1135	VRN-TV1JD562D	J	5.6k 1/10W Metal Film	AA
R1136	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1137	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1138	VRN-TV1JD102D	J	1k 1/10W Metal Film	AA
R1139	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA
R1140	VRN-TV1JD332D	J	3.3k 1/10W Metal Film	AA

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Ref. No.	Part No.	★	Description			Code
R1141	VRN-TV1JD332D	J	3.3k	1/10W	Metal Film	AA
R1142	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R1143	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R1144	*See Controls*					
R1145	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R1149	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R1150	*See Controls*					
R1151	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R1155	VRN-TV1JD272D	J	2.7k	1/10W	Metal Film	AA
R1156	VRN-TV1JD272D	J	2.7k	1/10W	Metal Film	AA
R1157	VRN-TV1JD272D	J	2.7k	1/10W	Metal Film	AA
R1158	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1159	*See Controls*					
R1160	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1161	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1162	*See Controls*					
R1163	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1164	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1165	*See Controls*					
R1166	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1167	VRN-TV1JD332D	J	3.3k	1/10W	Metal Film	AA
R1168	VRN-TV1JD332D	J	3.3k	1/10W	Metal Film	AA
R1169	VRS-TV1JD330J	J	33	1/10W	Metal Oxide	AA
R1170	VRS-TV1JD330J	J	33	1/10W	Metal Oxide	AA
R1171	VRS-TV1JD330J	J	33	1/10W	Metal Oxide	AA
R1172	VRS-TV1JD330J	J	33	1/10W	Metal Oxide	AA
R1173	VRS-TV1JD330J	J	33	1/10W	Metal Oxide	AA
R1174	VRS-TV1JD330J	J	33	1/10W	Metal Oxide	AA
R1201	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1202	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R1203	VRS-TV1JD273J	J	27k	1/10W	Metal Oxide	AA
R1204	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1205	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R1206	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R1207	VRS-TV1JD124J	J	120k	1/10W	Metal Oxide	AA
R1208	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R1209	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1210	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R1211	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1212	*See Controls*					
R1213	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R1214	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R1215	VRS-TV1JD393J	J	39k	1/10W	Metal Oxide	AA
R1216	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1217	VRS-TV1JD273J	J	27k	1/10W	Metal Oxide	AA
R1218	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R1219	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R1222	VRS-TV1JD822J	J	8.2k	1/10W	Metal Oxide	AA
R1301	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R1302	VRS-TX2HF1R0J	J	1	1/2W	Metal Oxide	AA
R1303	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1305	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R1306	VRS-TV1JD822J	J	8.2k	1/10W	Metal Oxide	AA
R1307	VRS-TX2HF8R2J	J	8.2	1/2W	Metal Oxide	AA
R1308	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R1309	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R1501	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1502	VRS-TV1JD562J	J	5.6k	1/10W	Metal Oxide	AA
R1503	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R1504	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1505	*See Controls*					
R1506	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R1507	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R1508	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1509	VRS-TV1JD273J	J	27k	1/10W	Metal Oxide	AA
R1510	VRS-TV1JD823J	J	82k	1/10W	Metal Oxide	AA
R1511	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R1512	VRS-TV1JD331J	J	330	1/10W	Metal Oxide	AA
R1513	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R1514	VRS-TV1JD331J	J	330	1/10W	Metal Oxide	AA
R1801	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R1802	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R1803	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R1804	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R1805	VRS-TV1JD183J	J	18k	1/10W	Metal Oxide	AA
R1806	VRS-TV1JD183J	J	18k	1/10W	Metal Oxide	AA
R1807	VRS-TV1JD000J	J	0	1/10W	Metal Oxide	AA
R1809	VRS-TV1JD474J	J	470k	1/10W	Metal Oxide	AA
R1810	VRS-TV1JD474J	J	470k	1/10W	Metal Oxide	AA
R1811	VRS-TV1JD474J	J	470k	1/10W	Metal Oxide	AA
R1812	VRS-TV1JD474J	J	470k	1/10W	Metal Oxide	AA
R1813	VRS-TV1JD474J	J	470k	1/10W	Metal Oxide	AA
R1814	VRS-TV1JD474J	J	470k	1/10W	Metal Oxide	AA
R1815	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1816	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1817	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1818	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1819	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1820	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1821	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R1822	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R1823	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R1824	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R1825	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1826	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1827	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1828	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1829	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R1830	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1831	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R1832	VRS-TV1JD562J	J	5.6k	1/10W	Metal Oxide	AA
R1838	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R1870	VRS-TV1JD331J	J	330	1/10W	Metal Oxide	AA
R1871	VRS-TV1JD331J	J	330	1/10W	Metal Oxide	AA
R1872	VRS-TV1JD331J	J	330	1/10W	Metal Oxide	AA
R1876	VRS-TV1JD564J	J	560k	1/10W	Metal Oxide	AA
R2001	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R2002	VRS-TV1JD471J	J	470	1/10W	Metal Oxide	AA
R2003	VRN-TV1JD123D	J	12k	1/10W	Metal Film	AA

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MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R2004	VRN-TV1JD222D	J 2.2k 1/10W	Metal Film	AA
R2006	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2007	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2008	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2010	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2011	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2012	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2013	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2014	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2015	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2016	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2018	VRS-TV1JD822J	J 8.2k 1/10W	Metal Oxide	AA
R2019	VRS-TV1JD392J	J 3.9k 1/10W	Metal Oxide	AA
R2020	VRS-TV1JD123J	J 12k 1/10W	Metal Oxide	AA
R2021	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2022	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2023	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2024	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2025	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2026	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2027	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2028	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2029	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2030	VRS-TV1JD682J	J 6.8k 1/10W	Metal Oxide	AA
R2031	VRS-TV1JD101J	J 100 1/10W	Metal Oxide	AA
R2032	VRS-TV1JD682J	J 6.8k 1/10W	Metal Oxide	AA
R2033	VRS-TV1JD101J	J 100 1/10W	Metal Oxide	AA
R2034	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2036	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2038	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2040	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2042	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2043	VRS-TV1JD222J	J 2.2k 1/10W	Metal Oxide	AA
R2044	VRS-TV1JD105J	J 1M 1/10W	Metal Oxide	AA
R2045	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2046	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2047	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2048	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2049	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2050	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2051	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2052	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2053	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2054	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2055	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2056	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2057	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2058	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2059	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2060	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2061	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2062	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2063	VRS-TV1JD103J	J 10k 1/10W	Metal Oxide	AA
R2064	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2065	VRS-TV1JD472J	J 4.7k 1/10W	Metal Oxide	AA
R2066	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2067	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2069	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2070	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2071	VRS-TV1JD562J	J 5.6k 1/10W	Metal Oxide	AA
R2072	VRS-TV1JD562J	J 5.6k 1/10W	Metal Oxide	AA
R2073	VRS-TV1JD562J	J 5.6k 1/10W	Metal Oxide	AA
R2074	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2075	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2076	VRS-TV1JD122J	J 1.2k 1/10W	Metal Oxide	AA
R2077	VRS-TV1JD103J	J 10k 1/10W	Metal Oxide	AA
R2078	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2079	VRS-TV1JD563J	J 56k 1/10W	Metal Oxide	AA
R2080	VRS-TV1JD473J	J 47k 1/10W	Metal Oxide	AA
R2081	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2082	VRS-TV1JD103J	J 10k 1/10W	Metal Oxide	AA
R2085	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2086	VRS-TV1JD103J	J 10k 1/10W	Metal Oxide	AA
R2087	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2088	VRS-TV1JD103J	J 10k 1/10W	Metal Oxide	AA
R2089	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2090	VRS-TV1JD103J	J 10k 1/10W	Metal Oxide	AA
R2091	VRS-TV1JD103J	J 10k 1/10W	Metal Oxide	AA
R2092	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2093	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2094	VRS-TV1JD104J	J 100k 1/10W	Metal Oxide	AA
R2095	VRS-TV1JD103J	J 10k 1/10W	Metal Oxide	AA
R2096	VRS-TV1JD563J	J 56k 1/10W	Metal Oxide	AA
R2097	VRS-TV1JD223J	J 22k 1/10W	Metal Oxide	AA
R2098	VRS-TV1JD000J	J 0 1/10W	Metal Oxide	AA
R2099	VRS-TV1JD104J	J 100k 1/10W	Metal Oxide	AA
R2100	VRS-TV1JD101J	J 100 1/10W	Metal Oxide	AA
R2101	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2112	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2113	VRS-TV1JD392J	J 3.9k 1/10W	Metal Oxide	AA
R2114	VRN-TV1JD272D	J 2.7k 1/10W	Metal Film	AA
R2115	VRS-TV1JD183J	J 18k 1/10W	Metal Oxide	AA
R2116	VRS-TV1JD333J	J 33k 1/10W	Metal Oxide	AA
R2117	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2118	VRS-TV1JD333J	J 33k 1/10W	Metal Oxide	AA
R2119	VRS-TV1JD333J	J 33k 1/10W	Metal Oxide	AA
R2120	VRS-TV1JD333J	J 33k 1/10W	Metal Oxide	AA
R2121	VRS-TV1JD333J	J 33k 1/10W	Metal Oxide	AA
R2123	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2124	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2125	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2126	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2127	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2128	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2129	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2130	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2131	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2132	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA
R2133	VRS-TV1JD102J	J 1k 1/10W	Metal Oxide	AA

Ref. No.	Part No.	★	Description			Code
			DUNTK9206DE01			
			MAIN UNIT (Continued)			
R2134	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2135	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2136	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2137	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2139	VRS-TX2HF681J	J	680	1/2W	Metal Oxide	AA
R2140	VRS-TV1JD681J	J	680	1/10W	Metal Oxide	AA
R2141	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2142	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2143	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2144	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2145	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2146	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2147	VRS-TV1JD824J	J	820k	1/10W	Metal Oxide	AA
R2148	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2149	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2153	VRS-TV1JD561J	J	560	1/10W	Metal Oxide	AA
R2154	VRS-TV1JD561J	J	560	1/10W	Metal Oxide	AA
R2155	VRS-TV1JD561J	J	560	1/10W	Metal Oxide	AA
R2156	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R2157	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2158	VRS-TV1JD821J	J	820	1/10W	Metal Oxide	AA
R2160	VRS-TX2HF000J	J	0	1/2W	Metal Oxide	AA
R2180	VRS-TV1JD821J	J	820	1/10W	Metal Oxide	AA
			SWITCHES			
S2001	QSW-K0076CEZZ	J	Call			AB
S2002	QSW-K0076CEZZ	J	Adjust In			AB
			MISCELLANEOUS PARTS			
FB1201	RBLN-0060CEZZ	J	Ferrite Bead			AC
FB1301	RBLN-0060CEZZ	J	Ferrite Bead			AC
J901	QJAKE0008TAZZ	J	DC Output Jack			AE
J2001	QJAKJ0044CEZZ	J	Jack			AF
P800	QPLGN0680GEZZ	J	Plug 6-pin, Test Point			AB
P801	QPLGZ1268GEZZ	J	Plug 12-pin (TB)			AD
P802	QPLGZ1268GEZZ	J	Plug 12-pin (TA)			AD
P803	QPLGZ1628CEZZ	J	Plug 16-pin (CA)			AF
P901	QPLGN0741CEZZ	J	Plug 7-pin (EA)			AC
P902	QPLGN0441CEZZ	J	Plug 4-pin (EB)			AB
P1301	QPLGN0278GEZZ	J	Plug 2-pin (SP)			AA
P1901	QPLGZ1628CEZZ	J	Plug 16-pin (MB)			AF
P1902	QPLGZ1628CEZZ	J	Plug 16-pin (MA)			AF
P2002	QPLGN0878GEZZ	J	Plug 8-pin (LC)			AC
P2003	QPLGN0478GEZZ	J	Plug 4-pin (AZ)			AB
P2004	QPLGN0678GEZZ	J	Plug 6-pin (LE)			AB
P2006	QPLGN0578GEZZ	J	Plug 5-pin (LB)			AB
P2007	QPLGN0378GEZZ	J	Plug 3-pin (LD)			AB
P2506	QPLGN0278GEZZ	J	Plug 2-pin (Q)			AA
P2507	QPLGN0278GEZZ	J	Plug 2-pin (TP)			AA
SC1101	QSOCZ0742CEZZ	J	Socket 7-pin, Test Point			AE
SC2001	QSOCN0079FJZZ	J	Socket 8-pin			AE
TP801	QLUGP0103GEFW	J	Lug, Test Point			AA
TP802	QLUGP0103GEFW	J	Lug, Test Point			AA

Ref. No.	Part No.	★	Description	Code
	LHLDZ1768CEZZ	J	Jack Holder	AC
	PRDAR5199CEFW	J	Heat Sink	AH
	QCNW-4624CEZZ	J	Connecting Wire	AD
	QSOCZ6434GEZZ	J	Socket 64-pin, IC2001	AG

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INPUT UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC301	VHiNJM2245M-1	J	Audio Switch	AF
IC302	VHiNJM2245M-1	J	Audio Switch	AF
IC401	VHiNJM2245M-1	J	Y-Switch	AF
IC402	VHiNJM2245M-1	J	Switch	AF
IC403	VHiNJM2245M-1	J	Video Switch	AF
IC902	VHiPQ09SZ11-1	J	+9V Regulator	AG
IC903	VHiPQ09SZ11-1	J	+9V Regulator	AG
IC1401	VHiM51494L/-1	J	Sharpness	AK

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q301	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q401	VSDTC144EK/-1	J	DTC144EK	AB
Q402	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q404	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q405	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q406	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q407	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1401	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1402	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1403	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1404	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1405	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1407	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D301	RH-EX0226CEZZ	J	Zener Diode	AB
D302	RH-EX0226CEZZ	J	Zener Diode	AB
D303	RH-EX0226CEZZ	J	Zener Diode	AB
D304	RH-EX0226CEZZ	J	Zener Diode	AB
D305	RH-EX0226CEZZ	J	Zener Diode	AB
D306	RH-EX0226CEZZ	J	Zener Diode	AB
D401	VHDMA153///-1	J	Diode MA153	AB
D403	RH-EX0226CEZZ	J	Zener Diode	AB
D404	RH-EX0226CEZZ	J	Zener Diode	AB
D405	RH-EX0226CEZZ	J	Zener Diode	AB
D406	RH-EX0226CEZZ	J	Zener Diode	AB
D903	VHDMA152WK/-1	J	Diode MA152WK	AA
D904	VHDMA152WK/-1	J	Diode MA152WK	AA

COIL AND TRANSFORMERS

Ref. No.	Part No.	★	Description	Code
CF401	RFiLC0286CEZZ	J	Ceramic Filter	AE
DL1401	RCiLZ0826CEZZ	J	Delay Line	AH
L902	RCiLP0168TAZZ	J	Coil	AF
L903	RCiLP0168TAZZ	J	Coil	AF
L1401	VP-MK680K0000	J	Peaking 68µH	AB
L1402	VP-MK560K0000	J	Peaking 56µH	AB
T401	RCiLi0595CEZZ	J	IF Coil	AG
T402	RCiLi0596CEZZ	J	IF Coil	AG

CAPACITORS

Ref. No.	Part No.	★				Code
C301	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C302	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C303	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C304	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C305	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C306	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C307	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C308	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C309	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C310	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C311	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C312	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C352	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C401	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C402	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C403	VCCCTV1HH390J	J	39p	50V	Ceramic	AA
C404	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C405	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C406	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C407	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C408	VCCCTV1HH680J	J	68p	50V	Ceramic	AA
C409	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C411	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C412	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C413	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C414	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C415	VCE9GA1CW476M	J	47	16V	Elect. (N.P)	AB
C416	VCE9GA1CW106M	J	10	16V	Elect. (N.P)	AB
C417	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C418	VCE9GA1CW106M	J	10	16V	Elect. (N.P)	AB
C419	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C420	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C423	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C904	VCEAGA1CW227M	J	220	16V	Electrolytic	AC
C905	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C906	VCEAGA1CW227M	J	220	16V	Electrolytic	AC
C907	VCEAGA1AW476M	J	47	10V	Electrolytic	AA
C1401	VCCCTV1HH560J	J	56p	50V	Ceramic	AA
C1402	VCE9GA1CW106M	J	10	16V	Elect. (N.P)	AB
C1403	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C1404	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1405	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1406	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1407	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1408	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1409	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1410	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1411	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C1413	VCCCTV1HH151J	J	150p	50V	Ceramic	AA
C1414	VCCCTV1HH151J	J	150p	50V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R301	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R302	VRS-TV1JD563J	J	56k	1/10W	Metal Oxide	AA
R303	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R304	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R305	VRS-TV1JD563J	J	56k	1/10W	Metal Oxide	AA
R306	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA

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INPUT UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R307	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R308	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R310	VRS-TV1JD563J	J	56k	1/10W	Metal Oxide	AA
R311	VRS-TV1JD563J	J	56k	1/10W	Metal Oxide	AA
R312	VRS-TV1JD681J	J	680	1/10W	Metal Oxide	AA
R313	VRS-TV1JD105J	J	1M	1/10W	Metal Oxide	AA
R314	VRS-TV1JD681J	J	680	1/10W	Metal Oxide	AA
R315	VRS-TV1JD105J	J	1M	1/10W	Metal Oxide	AA
R316	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R317	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R319	VRS-TV1JD272J	J	2.7k	1/10W	Metal Oxide	AA
R320	VRS-TV1JD272J	J	2.7k	1/10W	Metal Oxide	AA
R321	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R322	VRS-TV1JD122J	J	1.2k	1/10W	Metal Oxide	AA
R401	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R402	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R403	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R404	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R405	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R406	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R407	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R408	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R409	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R411	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R412	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R413	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R414	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R415	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R416	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R417	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R418	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R419	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R421	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R422	VRS-TX2HF331J	J	330	1/2W	Metal Oxide	AB
R423	VRS-TW2ED750J	J	75	1/4W	Metal Oxide	AA
R424	VRS-TV1JD105J	J	1M	1/10W	Metal Oxide	AA
R425	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R426	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R427	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R428	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R429	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R430	VRS-TV1JD471J	J	470	1/10W	Metal Oxide	AA
R431	VRS-TV1JD221J	J	220	1/10W	Metal Oxide	AA
R432	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R433	VRS-TV1JD151J	J	150	1/10W	Metal Oxide	AA
R434	VRS-TV1JD271J	J	270	1/10W	Metal Oxide	AA
R435	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R436	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R437	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R438	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R439	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R440	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R441	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R442	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R904	VRS-TX2HF121J	J	120	1/2W	Metal Oxide	AB
R906	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R907	VRS-TX2HF121J	J	120	1/2W	Metal Oxide	AB
R911	VRS-TX2HF121J	J	120	1/2W	Metal Oxide	AB
R1401	VRS-TV1JD471J	J	470	1/10W	Metal Oxide	AA
R1402	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R1403	VRS-TV1JD122J	J	1.2k	1/10W	Metal Oxide	AA
R1404	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R1405	VRS-TV1JD182J	J	1.8k	1/10W	Metal Oxide	AA
R1406	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R1407	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R1408	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R1409	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R1410	VRS-TV1JD562J	J	5.6k	1/10W	Metal Oxide	AA
R1411	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R1412	VRS-TV1JD272J	J	2.7k	1/10W	Metal Oxide	AA
R1413	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R1414	VRS-TV1JD822J	J	8.2k	1/10W	Metal Oxide	AA
R1415	VRS-TV1JD392J	J	3.9k	1/10W	Metal Oxide	AA
R1416	VRS-TV1JD822J	J	8.2k	1/10W	Metal Oxide	AA
R1417	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R1418	VRS-TV1JD821J	J	820	1/10W	Metal Oxide	AA
R1419	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R1420	VRS-TV1JD821J	J	820	1/10W	Metal Oxide	AA
R1421	VRS-TV1JD122J	J	1.2k	1/10W	Metal Oxide	AA
R1422	VRS-TV1JD100J	J	10	1/10W	Metal Oxide	AA
R1423	VRS-TV1JD271J	J	270	1/10W	Metal Oxide	AA
R1424	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R1425	VRS-TV1JD122J	J	1.2k	1/10W	Metal Oxide	AA
R1428	VRS-TV1JD681J	J	680	1/10W	Metal Oxide	AA

MISCELLANEOUS PARTS

J302	QJAKG0017CEZZ	J	Jack, Video 2 A/V	AF
J402	QJAKG0017CEZZ	J	Jack, Video 1 A/V	AF
J403	QJAKG0017CEZZ	J	Jack, Video A/V	AF
J401	QSOCD0435CEZZ	J	Socket, S-Video	AF
SC401	QSOCZ1269GEZZ	J	Socket 12-pin (TB)	AD
SC402	QSOCZ1269GEZZ	J	Socket 12-pin (TA)	AD
	QCNW-4414CEZZ	J	Connecting Wire	AE

Ref. No.	Part No.	★	Description	Code

DUNTK9208DE01
LED UNIT

INTEGRATED CIRCUIT

IC2501	VHiNJM2904M-1	J	NJM2904M	AE

DIODES

D2501	RH-PX0175CEZZ	J	LED, Temp.	AB
D2502	RH-PX0287CEZZ	J	LED, Lamp	AC
D2503	RH-PX0287CEZZ	J	LED, Power	AC

CAPACITORS

C2501	VCEAGA1CW227M	J	220	16V	Electrolytic	AC
C2502	VCEAGA1CW227M	J	220	16V	Electrolytic	AC
C2503	VCEAGA0JW107M	J	100	6.3V	Electrolytic	AB
C2504	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2505	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2506	VCE9GA1AW107M	J	100	10V	Elect. (N.P)	AB

RESISTORS

R2501	VRS-VV3LB100J	J	10	3W	Metal Oxide	AB
R2503	VRN-RV3AB1R0J	J	1	1W	Metal Film	AB
R2509	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2510	VRS-TV1JD220J	J	22	1/10W	Metal Oxide	AA
R2511	VRS-TV1JD562J	J	5.6k	1/10W	Metal Oxide	AA
R2512	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R2513	VRS-TV1JD273J	J	27k	1/10W	Metal Oxide	AA
R2514	VRS-TV1JD273J	J	27k	1/10W	Metal Oxide	AA
R2515	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R2516	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2517	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2518	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R2519	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA

SWITCH

S2501	QSW-P0577CEZZ	J	Power Switch	AE

MISCELLANEOUS PARTS

	QCNW-4417CEZZ	J	Connecting Wire	AD
P2501	QPLGN0278GEZZ	J	Plug 2-pin (LF)	AA
P2502	QPLGN0278GEZZ	J	Plug 2-pin (LL)	AA
P2503	QPLGN0378GEZZ	J	Plug 3-pin (FS)	AB
P2504	QPLGN0478GEZZ	J	Plug 4-pin (FC)	AB
P2505	QPLGN0341CEZZ	J	Plug 3-pin (D)	AA
P2508	QPLGN0378GEZZ	J	Plug 3-pin (LD)	AB
P2509	QPLGN0678GEZZ	J	Plug 6-pin (LE)	AB
P2510	QPLGN0578GEZZ	J	Plug 5-pin (LB)	AB
P2511	QPLGN0878GEZZ	J	Plug 8-pin (LC)	AC
RMC2501	RRMCU0196CEZZ	J	Infrared R/C Receiver	AM
	LHLDZ1766CE00	J	LED Holder	AE

Ref. No.	Part No.	★	Description	Code

DUNTK9209DE01
CONTROL UNIT

INTEGRATED CIRCUITS

IC1601	RH-iX2449CEZZ	J	LCD Control LZ93BE6	AP
IC1602	VHiPQ05TZ11-1	J	5V Regulator	AH
IC1604	VHiNJM2107F-1	J	OP Amp.	AE
IC1606	RH-iX1453CEZZ	J	Shift Register TC74HC164	AF
IC1607	VHiTHC4040AF1	J	Binary Counter	AH
IC1608	VHiTCHC20F/-1	J	NAND	AD
IC1610	VHiTCHC74F/-1	J	D Flip-Flop	AE
IC1612	VHiTC4S01F/-1	J	TC4S01F	AC
IC1613	VHiNJM3415M-1	J	OP Amp.	AT
IC1614	VHiNJM3415M-1	J	OP Amp.	AT
IC1615	RH-iX1973CEZZ	J	Buffer SN74HC541NS	AG
IC1616	VHiSNHC00NS-1	J	NAND	AC
IC1620	VHiTC7S00F/-1	J	TC7S00F	AC
IC1621	VHiTC4W53F/-1	J	TC4W53F	AE
IC1622	VHiTC7S08F/-1	J	TC7S08F	AC
IC2801	VHiMC14053F-1	J	Switch Circuit	AD
IC2802	VHiMC14053F-1	J	Switch Circuit	AD

TRANSISTORS

Q1601	VS2SC2735//1E	J	2SC2735	AC
Q1602	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1603	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1604	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1605	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1606	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1610	VSDTC144EK/-1	J	DTC144EK	AB
Q2801	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2802	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2803	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2804	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2805	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2806	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2807	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2808	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2809	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2810	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2811	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2812	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2813	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2814	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2815	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2816	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2817	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2818	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2819	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2820	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2821	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2822	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2823	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2824	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2825	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2826	VS2SA1037KQ-1	J	2SA1037KQ	AA

DUNTK9209DE01
CONTROL UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
Q2827	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q2828	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2829	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q2830	VS2SA1037KQ-1	J	2SA1037KQ	AA

DIODES

D1601	VHDMA152WK/-1	J	Diode MA152WK	AA
D1603	VHD1SV217//-1	J	Diode 1SV217	AB
D1605	RH-EX0251CEZZ	J	Zener Diode	AB
D1606	RH-EX0225CEZZ	J	Zener Diode	AB
D2801	VHDMA152WK/-1	J	Diode MA152WK	AA
D2802	VHDMA152WK/-1	J	Diode MA152WK	AA
D2803	VHDMA152WK/-1	J	Diode MA152WK	AA
D2804	VHDMA152WK/-1	J	Diode MA152WK	AA
D2805	VHDMA152WK/-1	J	Diode MA152WK	AA
D2806	VHDMA152WK/-1	J	Diode MA152WK	AA

COIL AND TRANSFORMERS

L1601	RCiLB0077CEZZ	J	VCO Adj. Coil	AL
L1603	VP-MK150K0000	J	Peaking 15µH	AB
L1604	VP-MK220K0000	J	Peaking 22µH	AB
L1605	VP-MK220K0000	J	Peaking 22µH	AB
L1606	VP-MK220K0000	J	Peaking 22µH	AB
L1607	VP-MK220K0000	J	Peaking 22µH	AB
L1608	VP-MK220K0000	J	Peaking 22µH	AB
L1609	VP-MK220K0000	J	Peaking 22µH	AB
L1610	VP-MK220K0000	J	Peaking 22µH	AB
L2801	RCiLP0168TAZZ	J	Coil	AF
L2802	RCiLP0168TAZZ	J	Coil	AF

CONTROLS

R1628	RVR-M4272CEZZ	J	10k(B)	Horiz. Center		AC
R1664	RVR-M4269CEZZ	J	3.3k(B)	Common Adj. (B)		AC
R1673	RVR-M4269CEZZ	J	3.3k(B)	Common Adj. (G)		AC
R1678	RVR-M4269CEZZ	J	3.3k(B)	Common Adj. (R)		AC

CAPACITORS

C1601	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1602	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1605	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1606	VCCCTV1HH561J	J	560p	50V	Ceramic	AA
C1607	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1608	VCCCTV1HH151J	J	150p	50V	Ceramic	AA
C1609	VCCCTV1HH151J	J	150p	50V	Ceramic	AA
C1610	VCCCTV1HH561J	J	560p	50V	Ceramic	AA
C1611	VCCCTV1HH221J	J	220p	50V	Ceramic	AA
C1612	VCCCTV1HH470J	J	47p	50V	Ceramic	AA
C1613	VCCCTV1HH100D	J	10p	50V	Ceramic	AA
C1614	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1615	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1616	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1617	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1618	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C1619	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1620	VCCCTV1HH391J	J	390p	50V	Ceramic	AA
C1621	VCEAGA1HW475M	J	4.7	50V	Electrolytic	AB
C1622	VCEAGA1HW476M	J	47	50V	Electrolytic	AB
C1623	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1624	VCCCTV1HH221J	J	220p	50V	Ceramic	AA
C1625	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1627	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1628	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1629	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1630	VCE9GA1HW105M	J	1	50V	Elect. (N.P)	AB
C1631	VCE9GA1HW105M	J	1	50V	Elect. (N.P)	AB
C1632	VCE9GA1HW105M	J	1	50V	Elect. (N.P)	AB
C1633	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1634	VCEAGA1EW476M	J	47	25V	Electrolytic	AB
C1635	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1636	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1637	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1638	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1639	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1640	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1641	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1642	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1643	VCEAGA1CW107M	J	100	16V	Electrolytic	AB
C1644	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1645	VCEAGA1AW107M	J	100	10V	Electrolytic	AB
C1646	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1647	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C1648	VCEAGA1EW476M	J	47	25V	Electrolytic	AB
C1649	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C1650	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1651	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2801	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C2802	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C2803	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C2804	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C2805	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2806	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2807	VCEAGA1EW227M	J	220	25V	Electrolytic	AC
C2808	VCEAGA1CW476M	J	47	16V	Electrolytic	AB
C2809	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2810	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C2811	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2812	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2813	VCEAGA1EW227M	J	220	25V	Electrolytic	AC
C2814	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C2815	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2816	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA

RESISTORS

R1601	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R1603	VRS-TV1JD683J	J	68k	1/10W	Metal Oxide	AA
R1604	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R1605	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R1606	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R1607	VRS-TV1JD105J	J	1M	1/10W	Metal Oxide	AA

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CONTROL UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R1608	VRS-TV1JD183J	J	18k 1/10W Metal Oxide	AA
R1609	VRS-TV1JD823J	J	82k 1/10W Metal Oxide	AA
R1610	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1611	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1612	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1613	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R1614	VRS-TV1JD181J	J	180 1/10W Metal Oxide	AA
R1615	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R1616	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R1617	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R1618	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1619	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1620	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1621	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1622	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1623	VRS-TV1JD750J	J	75 1/10W Metal Oxide	AA
R1624	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1625	VRS-TV1JD750J	J	75 1/10W Metal Oxide	AA
R1626	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1627	VRS-TV1JD750J	J	75 1/10W Metal Oxide	AA
R1628	*See Controls*			
R1631	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1632	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1633	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1634	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R1635	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1636	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R1637	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1639	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1640	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1641	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1642	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1643	VRS-TV1JD105J	J	1M 1/10W Metal Oxide	AA
R1644	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1645	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1646	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1651	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R1653	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1654	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1655	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R1657	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1661	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1662	VRS-TV1JD100J	J	10 1/10W Metal Oxide	AA
R1663	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1664	*See Controls*			
R1665	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1666	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1667	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1668	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1669	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1670	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1671	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1672	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1673	*See Controls*			
R1674	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1675	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1676	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1677	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R1678	*See Controls*			
R1679	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R1680	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1681	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R1682	VRS-TX2HF121J	J	120 1/2W Metal Oxide	AB
R1683	VRS-TX2HF121J	J	120 1/2W Metal Oxide	AB
R1684	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R1687	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R1688	VRS-TV1JD6R8J	J	6.8 1/10W Metal Oxide	AA
R1689	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1690	VRS-TV1JD6R8J	J	6.8 1/10W Metal Oxide	AA
R1691	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1692	VRS-TV1JD6R8J	J	6.8 1/10W Metal Oxide	AA
R1693	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R1694	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R1695	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R1696	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R1697	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R1699	VRS-TX2HF100J	J	10 1/2W Metal Oxide	AA
R2601	VRS-TV1JD272J	J	2.7k 1/10W Metal Oxide	AA
R2801	VRN-TV1JD182D	J	1.8k 1/10W Metal Film	AA
R2802	VRN-TV1JD682D	J	6.8k 1/10W Metal Film	AA
R2803	VRN-TV1JD182D	J	1.8k 1/10W Metal Film	AA
R2804	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2805	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2806	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2807	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2808	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2809	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2810	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2811	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2812	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2813	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2814	VRS-TV1JD391J	J	390 1/10W Metal Oxide	AA
R2815	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R2816	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R2817	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2818	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2819	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2820	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2821	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2822	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R2823	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R2824	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2825	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA
R2826	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2827	VRS-TV1JD470J	J	47 1/10W Metal Oxide	AA
R2828	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2829	VRS-TW2ED4R7J	J	4.7 1/4W Metal Oxide	AA
R2830	VRS-TV1JD5R6J	J	5.6 1/10W Metal Oxide	AA
R2831	VRS-TX2HF122J	J	1.2k 1/2W Metal Oxide	AA

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R2832	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2833	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2834	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2835	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2836	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2837	VRS-TV1JD5R6J	J	5.6	1/10W	Metal Oxide	AA
R2838	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2839	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2840	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2841	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2842	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2843	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2844	VRS-TV1JD5R6J	J	5.6	1/10W	Metal Oxide	AA
R2845	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2846	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2847	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2848	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2849	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2850	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2851	VRS-TV1JD5R6J	J	5.6	1/10W	Metal Oxide	AA
R2852	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2853	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2854	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2855	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2856	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2857	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2858	VRS-TV1JD5R6J	J	5.6	1/10W	Metal Oxide	AA
R2859	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2860	VRS-TX2HF122J	J	1.2k	1/2W	Metal Oxide	AA
R2861	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2862	VRS-TV1JD470J	J	47	1/10W	Metal Oxide	AA
R2863	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2864	VRS-TW2ED4R7J	J	4.7	1/4W	Metal Oxide	AA
R2865	VRS-TV1JD5R6J	J	5.6	1/10W	Metal Oxide	AA
R2866	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R2867	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R2868	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R2869	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R2870	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R2871	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA

SWITCH

S1601	QSW-K0065GEZZ	J	Mute Switch	AC

MISCELLANEOUS PARTS

P1601	QPLGN0190FJZZ	J	Plug 16-pin (R)	AG
P1602	QPLGN0190FJZZ	J	Plug 16-pin (G)	AG
P1603	QPLGN0190FJZZ	J	Plug 16-pin (B)	AG
P1604	QPLGN0341CEZZ	J	Plug 3-pin	AA
P1605	QPLGN0741CEZZ	J	Plug 5-pin	AC
SC1601	QSOCZ1628CEZZ	J	Socket 16-pin (MB)	AF
SC1602	QSOCZ1628CEZZ	J	Socket 16-pin (MA)	AF

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SCAN CONVERTER UNIT

INTEGRATED CIRCUITS

IC4101	RH-iX2379CEZZ	J	Controller	AY
IC4102	RH-iX2063CEZZ	J	Line Memory UPD42102G-3	AV
IC4103	RH-iX0142TAZZ	J	A/D Converter UPC659G	AU
IC4104	VHiMB40778F-1	J	D/A Converter	AN
IC4105	VHiSC7S04F/-1	J	SC7S04F	AC
IC4106	VHiNJM2107F-1	J	OP Amp.	AE
IC4107	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC4108	VHiMC14577F-1	J	MC14577BF	AG
IC4109	VHiMC14577F-1	J	MC14577BF	AG
IC4110	VHiMC14577F-1	J	MC14577BF	AG
IC4111	VHiNJM2283F-1	J	NJM2283M	AF
IC4112	VHiPQ05TZ11-1	J	PQ05TZ11	AH

TRANSISTORS

Q4101	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4102	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4103	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4104	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4105	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4106	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4107	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4108	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4109	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4110	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q4113	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4114	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q4115	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES

D4101	VHDMA152WK/-1	J	Diode MA152WK	AA
D4102	VHD1SV217//-1	J	Diode 1SV217	AB

COILS

DL4101	RCiLF0135GEZZ	J	Delay Line Coil	AL
DL4102	RCiLF0135GEZZ	J	Delay Line Coil	AL
FL4101	RCiLF0214CEZZ	J	Coil	AF
L4101	RCiLB0065CEZZ	J	VCO2 Adj. Coil	AG
L4102	VP-1M3R3JR93N	J	Peaking 3.3µH	AB
L4103	RCiLC0055CEZZ	J	Coil	AD

CAPACITORS

C4100	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4101	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C4102	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C4103	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C4104	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C4105	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C4106	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C4107	VCE9PF1CW475M	J	4.7	16V	Elect. (N.P)	AC
C4108	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C4109	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C4110	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB

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SCAN CONVERTER UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C4111	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C4112	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4113	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4114	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4115	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4116	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C4117	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4118	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C4119	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C4120	VCCCCY1HH471J	J	470p	50V	Ceramic	AA
C4121	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4122	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C4123	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4124	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4125	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4126	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4127	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4128	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4129	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4130	VCEAPH1HW105M	J	1	50V	Electrolytic	AB
C4131	VCCCCY1EH561J	J	560p	25V	Ceramic	AA
C4132	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4133	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C4134	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C4135	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C4136	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C4137	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4138	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4139	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4140	VCKYCY1EB103K	J	0.01	25V	Ceramic	AA
C4141	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C4142	VCEAPH1CW106M	J	10	16V	Electrolytic	AB
C4143	VCEAPH1HW225M	J	2.2	50V	Electrolytic	AB
C4144	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB

RESISTORS

Ref. No.	Part No.	★				Code
R4100	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4101	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4102	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4103	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4104	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4106	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R4107	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R4108	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R4109	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R4110	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R4111	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4112	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R4113	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R4114	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4115	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4116	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4117	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4118	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R4119	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R4120	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R4121	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R4122	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4123	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R4124	VRS-CY1JF242J	J	2.4k	1/16W	Metal Oxide	AA
R4125	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4126	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R4127	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R4128	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R4129	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R4130	VRS-CB1JF271J	J	270	1/16W	Metal Oxide	AC
R4131	VRS-CB1JF271J	J	270	1/16W	Metal Oxide	AC
R4132	VRS-CB1JF391J	J	390	1/16W	Metal Oxide	AC
R4133	VRS-CB1JF391J	J	390	1/16W	Metal Oxide	AC
R4134	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R4135	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R4136	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R4137	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R4138	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R4139	VRS-CY1JF183J	J	18k	1/16W	Metal Oxide	AA
R4140	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R4141	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R4143	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R4145	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4146	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4147	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R4149	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4150	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R4151	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R4152	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R4153	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R4154	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R4155	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R4156	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4157	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R4158	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4159	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R4160	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4161	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R4162	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R4163	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R4164	VRS-CY1JF683J	J	68k	1/16W	Metal Oxide	AA
R4165	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R4166	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4167	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R4168	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R4169	VRS-CB1JF391J	J	390	1/16W	Metal Oxide	AC
R4170	VRS-CB1JF391J	J	390	1/16W	Metal Oxide	AC
R4171	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R4172	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R4173	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4174	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4175	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4176	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

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SCAN CONVERTER UNIT (Continued)

R4177	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R4178	VRS-CY1JF823J	J	82k	1/16W	Metal Oxide	AA
R4179	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R4180	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4181	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R4182	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R4183	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R4184	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4185	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4187	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R4188	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R4189	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R4190	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R4191	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R4192	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4193	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4194	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R4195	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R4196	VRS-CY1JF823J	J	82k	1/16W	Metal Oxide	AA
R4197	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R4201	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R4202	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R4203	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R4207	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB4102	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4103	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4104	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4106	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4107	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4108	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4109	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4110	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4111	RBLN-0065CEZZ	J	Ferrite Bead	AB
SC4101	QSOCZ1628CEZZ	J	Socket 16-pin (CA)	AF
TP4101	QLUGP0110TAFW	J	Lug, Test Point	AA
TP4102	QLUGP0110TAFW	J	Lug, Test Point	AA

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POWER UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
⚠IC701	9FJ0F09010030	J	MA2820	AU
⚠IC702	9FJ0F09010030	J	MA2820	AU
IC703	9FJ0F01110512	J	PQ12RH11	AM
IC704	9FJ0F01110285	J	TA76431S	AG
IC705	9FJ0F01110285	J	TA76431S	AG
IC706	9FJ0F01110522	J	PQ15RF15	AM
TRANSISTORS				
TR702	9FJ0Q02001071	J	2SC2785	AD
TR703	9FJ0Q02001071	J	2SC2785	AD
TR708	9FJ0Q02001071	J	2SC2785	AD
TR709	9FJ0Q02001071	J	2SC2785	AD
DIODES				
D701	9FJ0D00001005	J	Diode 1SS119	AB
D702	9FJ0D00001005	J	Diode 1SS119	AB
D703	9FJ0D00001005	J	Diode 1SS119	AB
D704	9FJ0D01001515	J	Diode EG01Z	AD
D705	9FJ0D04001020	J	Diode FMBG14	AH
D706	9FJ0D23010022	J	Diode FMX12S	AH
D707	9FJ0D23010022	J	Diode FMX12S	AH
D708	9FJ0D02010000	J	Diode RL2Z	AF
D709	9FJ0D01010105	J	Diode 1DL42A	AE
D710	9FJ0D00001005	J	Diode 1SS119	AB
D711	9FJ0D00001005	J	Diode 1SS119	AB
D712	9FJ0D00001005	J	Diode 1SS119	AB
⚠DB701	9FJ0D14010070	J	Bridge Diode D10XB60	AN
ZD701	9FJ0D31181625	J	Zener Diode RD10JS	AD
ZD702	9FJ0D31181655	J	Zener Diode RD15JS	AD
ZD703	9FJ0D31110125	J	Zener Diode RD5.1JS	AD
ZD704	9FJ0D31110125	J	Zener Diode RD5.1JS	AD
PACKAGED CIRCUITS				
⚠PC701	9FJ0F10010931	J	Photo Coupler TLP721	AG
⚠PC702	9FJ0F10010931	J	Photo Coupler TLP721	AG
⚠PC704	9FJ0F10010931	J	Photo Coupler TLP721	AG
⚠PC705	9FJ0F10010460	J	Photo Triac Coupler S21ME3	AM
COIL AND TRANSFORMERS				
⚠L701	9FJ0L05310530	J	Inductor 8.3mH ET35V-16	AN
L703	9FJ0L08001445	J	Inductor 5.6µH	AF
L704	9FJ0L08001445	J	Inductor 5.6µH	AF
L705	9FJ0L08001445	J	Inductor 5.6µH	AF
L706	9FJ0L08001445	J	Inductor 5.6µH	AF
L707	9FJ0L08010145	J	Inductor 8.2µH	AD
L708	9FJ0L08010150	J	Inductor CM05RB02	AK
⚠T701	9FJ0L00010100	J	Trans. 050100	AR
⚠T702	9FJ0L00010110	J	Trans. 050101	AR
CONTROLS				
VR701	9FJ0R60001245	J	500(B) 6.5V Adj.	AE
VR702	9FJ0R60001255	J	1k(B) 13V Adj.	AE
CAPACITORS				
⚠C701	9FJ0C34010663	J	0.47 250V M. Polyester	AK
⚠C702	9FJ0C34010663	J	0.47 250V M. Polyester	AK
C703	9FJ0C51000020	J	2200p 250V Ceramic	AE
C704	9FJ0C51000020	J	2200p 250V Ceramic	AE
C705	9FJ0C51000020	J	2200p 250V Ceramic	AE
⚠C706	9FJ0C02801443	J	330 400V Electrolytic	AX
⚠C707	9FJ0C02801443	J	330 400V Electrolytic	AX
C709	9FJ0C32410080	J	0.022 400V M. Polyester	AE
C710	9FJ0C12001305	J	0.022 50V Polyester Film	AD
C711	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C712	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C713	9FJ0C32410080	J	0.022 400V M. Polyester	AE
C714	9FJ0C12001305	J	0.022 50V Polyester Film	AD
C715	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C716	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C717	9FJ0C01502545	J	47 50V Electrolytic	AC
C718	9FJ0C12001005	J	1000p 50V Polyester Film	AD
C719	9FJ0C01401675	J	330 35V Electrolytic	AF
C720	9FJ0C50011295	J	0.01 250V Ceramic	AE
C721	9FJ0C50011295	J	0.01 250V Ceramic	AE
C722	9FJ0C01110135	J	1000 10V Electrolytic	AE
C723	9FJ0C01410113	J	1000 35V Electrolytic	AK
C724	9FJ0C01401595	J	220 35V Electrolytic	AF
C726	9FJ0C12001005	J	1000p 50V Polyester Film	AD
C727	9FJ0C01202325	J	220 16V Electrolytic	AE
C728	9FJ0C50002185	J	0.1 50V Ceramic	AD
C730	9FJ0C12001035	J	0.1 50V Polyester Film	AD
C731	9FJ0C01402025	J	470 35V Electrolytic	AG
C732	9FJ0C50011295	J	0.01 250V Ceramic	AE
C733	9FJ0C01410113	J	1000 35V Electrolytic	AK
C735	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C736	9FJ0C01401595	J	220 35V Electrolytic	AF
C737	9FJ0C50002185	J	0.1 50V Polyester Film	AD
C739	9FJ0C01402025	J	470 35V Electrolytic	AG
C740	9FJ0C01510515	J	220 50V Electrolytic	AF
C741	9FJ0C01401985	J	100 35V Electrolytic	AE
C742	9FJ0C01502545	J	47 50V Electrolytic	AC
⚠C743	9FJ0C51000020	J	2200p 250V Ceramic	AE
⚠C744	9FJ0C51000020	J	2200p 250V Ceramic	AE
C745	9FJ0C01401985	J	100 35V Electrolytic	AE
C746	9FJ0C50010565	J	330p 1kV Ceramic	AD
C747	9FJ0C50010565	J	330p 1kV Ceramic	AD
C748	9FJ0C01510535	J	1 50V Electrolytic	AD
C749	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C750	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C751	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C752	9FJ0C12001015	J	0.01 50V Polyester Film	AD
C753	9FJ0C32310130	J	0.047 250V M. Polyester	AE
⚠C754	9FJ0C51000020	J	2200p 250V Ceramic	AE
⚠C755	9FJ0C51000020	J	2200p 250V Ceramic	AE
C756	9FJ0C50011295	J	0.01 250V Ceramic	AE
C757	9FJ0C50011295	J	0.01 250V Ceramic	AE
C758	9FJ0C50011295	J	0.01 250V Ceramic	AE

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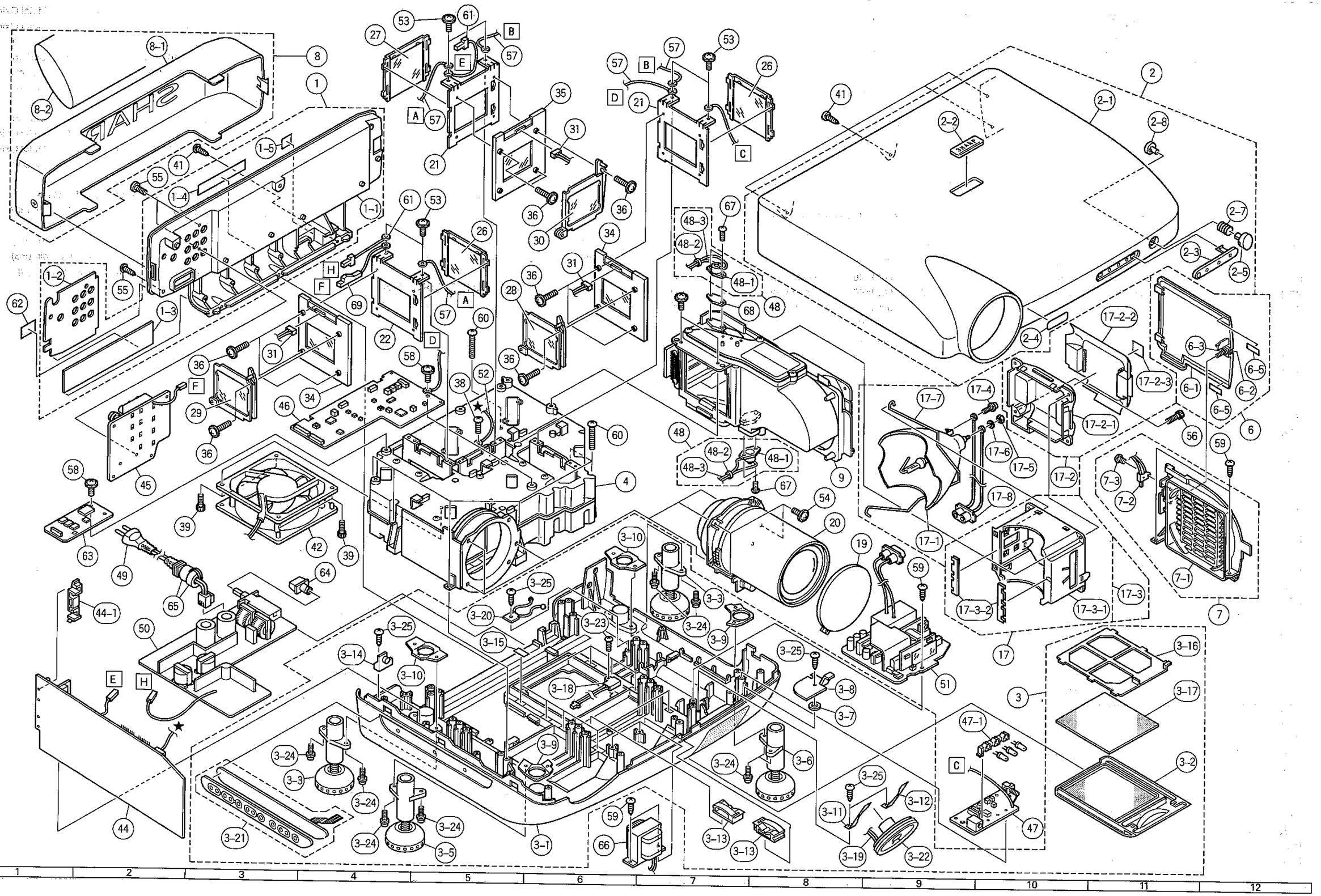
POWER UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
C760	9FJ0C01510535	J	1	50V	Electrolytic	AD
RESISTORS						
⚠R701	9FJ0R11002040	J	220k	1W	Sp. Power	AC
R702	9FJ0R90010140	J	10	Power	Thermistor	AG
⚠R704	9FJ0R12002061	J	330k	2W	Metal Oxide	AD
R706	9FJ0R00101135	J	4.7k	1/6W	Carbon	AB
R707	9FJ0R00101135	J	4.7k	1/6W	Carbon	AB
R708	9FJ0R17071251	J	15k	2W	Metal Oxide	AD
R709	9FJ0R17071251	J	15k	2W	Metal Oxide	AD
R710	9FJ0R02103645	J	560k	1/2W	Carbon	AC
R711	9FJ0R02103645	J	560k	1/2W	Carbon	AC
R712	9FJ0R17070731	J	100	2W	Metal Oxide	AD
R713	9FJ0R16080555	J	18	1W	Metal Oxide	AD
R714	9FJ0R00100695	J	68	1/6W	Carbon	AB
R715	9FJ0R17071251	J	15k	2W	Metal Oxide	AD
R716	9FJ0R17071251	J	15k	2W	Metal Oxide	AD
R717	9FJ0R02103645	J	560k	1/2W	Carbon	AC
R718	9FJ0R02103645	J	560k	1/2W	Carbon	AC
R719	9FJ0R16010035	J	82k	1W	Metal Oxide	AC
R720	9FJ0R16010035	J	82k	1W	Metal Oxide	AC
R721	9FJ0R17070731	J	100	2W	Metal Oxide	AD
R722	9FJ0R16080615	J	33	1W	Metal Oxide	AD
R724	9FJ0R02103565	J	120k	1/2W	Carbon	AC
R725	9FJ0R02103565	J	120k	1/2W	Carbon	AC
R727	9FJ0R00100935	J	680	1/4W	Carbon	AB
R728	9FJ0R02103335	J	1.5k	1/2W	Carbon	AC
R732	9FJ0R00101135	J	4.7k	1/6W	Carbon	AB
R733	9FJ0R00101075	J	2.7k	1/6W	Carbon	AB
R734	9FJ0R00100895	J	470	1/6W	Carbon	AB
R735	9FJ0R00100495	J	10	1/6W	Carbon	AB
R736	9FJ0R00100735	J	100	1/6W	Carbon	AB
R737	9FJ0R00101055	J	2.2k	1/4W	Carbon	AB
R738	9FJ0R00100815	J	220	1/6W	Carbon	AB
R739	9FJ0R00101215	J	10k	1/6W	Carbon	AB
R740	9FJ0R00101215	J	10k	1/6W	Carbon	AB
R741	9FJ0R00101055	J	2.2k	1/6W	Carbon	AB
R743	9FJ0R00101035	J	1.8k	1/4W	Carbon	AB
R744	9FJ0R00101295	J	22k	1/6W	Carbon	AB
⚠R746	9FJ0R31110025	J	8.2M	1/2W	Coat-Insulated Fixed Anti-Surge	AD
R747	9FJ0R02103235	J	220	1/2W	Carbon	AB
R749	9FJ0R00101135	J	4.7k	1/6W	Carbon	AB
R750	9FJ0R00101135	J	4.7k	1/6W	Carbon	AB
R751	9FJ0R17070651	J	47	2W	Metal Oxide	AD
R752	9FJ0R17070651	J	47	2W	Metal Oxide	AD
⚠R753	9FJ0R31110025	J	8.2M	1/2W	Coat-Insulated Fixed Anti-Surge	AD
R754	9FJ0R17071251	J	15k	2W	Metal Oxide	AD
R755	9FJ0R17071251	J	15k	2W	Metal Oxide	AD
R756	9FJ0R16080735	J	100	1W	Metal Oxide	AD
R757	9FJ0R16080735	J	100	1W	Metal Oxide	AD
R758	9FJ0R16080615	J	33	1W	Metal Oxide	AD
R759	9FJ0R81004415	J	5.1k	1/4W	Coat-Insulated Fixed Metal Film	AB
R760	9FJ0R16010035	J	82k	1W	Metal Oxide	AC
R761	9FJ0R81003765	J	1k	1/4W	Coat-Insulated Fixed Metal Film	AB
R762	9FJ0R00101215	J	10k	1/6W	Carbon	AB
R763	9FJ0R00100735	J	100	1/6W	Carbon	AB
R764	9FJ0R00100655	J	47	1/6W	Carbon	AB
R765	9FJ0R17070251	J	1	2W	Metal Oxide	AD
SWITCH						
⚠SW701	9FJ0H01010060	J	Power Switch			AP
MISCELLANEOUS PARTS						
⚠F701	9FJ0E02110030	J	Fuse, T6.3AH 250V			AF
⚠RY701	9FJ0H11510410	J	Relay			AR
	9FJ0G10001750	J	Connector 3-pin (PE)			AE
	9FJ0G10011540	J	Connector 2-pin (BA)			AE
	9FJ0G10001640	J	Connector 2-pin (PS)			AD
	9FJ0G10001750	J	Connector 3-pin (PL)			AE
	9FJ0G10003800	J	Connector 7-pin (EA)			AE
	9FJ0G10011580	J	Connector 4-pin (EB)			AE
	9FJ0G10002710	J	Connector 2-pin (PC)			AD

RDENC0196CEZZ
BALLAST UNIT

Ref. No.	Part No.	★			Description	Code
PACKAGED CIRCUIT						
	NOTE: TH PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.					
⚠SUBPC	9FJ8G00010401	J	Sub Unit			AY
TRANSISTORS						
⚠Q1701	9FJ0Q11001442	J	2SK2057			AW
Q1702	9FJ0Q02001351	J	2SC3328Y			AG
Q1703	9FJ0Q02001071	J	2SC2785			AD
DIODES						
D1702	9FJ0D01001515	J	Diode EG01Z			AD
D1703	9FJ0D26010080	J	Diode FMG36S			AL
D1704	9FJ0D01001515	J	Diode EG01Z			AD
PACKAGED CIRCUITS						
⚠PC1701	9FJ0F10010971	J	Photo Coupler TLP123 or TLP721			AF
⚠PC1702	9FJ0F10010971	J	Photo Coupler TLP123 or TLP721			AF
⚠SCR1701	9FJ0D30901000	J	SCR K1V(A)16			AG
COIL AND TRANSFORMERS						
⚠L1701	9FJ0L08501090	J	Inductor			AS
L1704	9FJ0L08001430	J	Inductor			AF
⚠L1707	9FJ0L05010530	J	Inductor 8.3mH 3A ET35V-16			AN
⚠T1701	9FJ0L01501030	J	Trans. 150100			AM
⚠T1702	9FJ0L03501020	J	Igunaiter			BH
CAPACITORS						
C1701	9FJ0C50010725	J	1000p	1kV	Ceramic	AD
C1702	9FJ0C12001035	J	0.1	50V	Polyester Film	AD
C1703	9FJ0C32410040	J	2.2	400V	M. Polyester	AN
C1704	9FJ0C32401090	J	0.033	400V	M. Polyester	AE
C1706	9FJ0C50010760	J	470p	2kV	Ceramic	AE
C1707	9FJ0C02801413	J	220	400V	Electrolytic	AV
⚠C1711	9FJ0C51000020	J	2200p	250V	Ceramic	AE
C1713	9FJ0C32410080	J	0.022	400V	M. Polyester	AE
C1714	9FJ0C32410080	J	0.022	400V	M. Polyester	AE
⚠C1715	9FJ0C32410070	J	0.1	400V	M. Polyester	AF
C1751	9FJ0C12001015	J	0.01	50V	Polyester Film	AD
C1800	9FJ0C50002185	J	0.1	50V	Ceramic	AD
C1801	9FJ0C50002185	J	0.1	50V	Ceramic	AD
C1802	9FJ0C50010725	J	1000p	1kV	Ceramic	AD
RESISTORS						
R1701	9FJ0R22001210	J	0.22	5W	Cement	AE
R1702	9FJ0R22100264	J	22	5W	Cement	AF
R1703	9FJ0R11002055	J	270k	1W	Special	AD
R1704	9FJ0R11002045	J	220k	1W	Special	AD
R1705	9FJ0R22104244	J	22k	5W	Cement	AE
R1706	9FJ0R15080655	J	47	1/2W	Metal Oxide	AC
R1707	9FJ0R17070841	J	300	2W	Metal Oxide	AD
R1708	9FJ0R17070841	J	300	2W	Metal Oxide	AD
R1709	9FJ0R00100615	J	33	1/6W	Carbon	AB
R1710	9FJ0R00101335	J	33k	1/6W	Carbon	AB
⚠R1711	9FJ0R22001210	J	0.22	5W	Cement	AE
⚠R1712	9FJ0R22001210	J	0.22	5W	Cement	AE
⚠R1713	9FJ0R31110015	J	820k	1/2W	Solid	AD
R1715	9FJ0R02103315	J	1k	1/2W	Carbon	AC
R1716	9FJ0R17070411	J	4.7	2W	Metal Oxide	AD
R1717	9FJ0R22110320	J	1	5W	Metal Oxide	AF
R1756	9FJ0R00100855	J	330	1/6W	Carbon	AB
MISCELLANEOUS PARTS						
⚠TF1701	9FJ0E03010060	J	Thermal Fuse, P125A 127°C 250V 2A			AG
	9FJ0G10011560	J	Connector 3-pin (PL)			AE
	9FJ0G10001640	J	Connector 2-pin (PS)			AD
	9FJ0G10002140	J	Connector 3-pin (D)			AE

CABINET AND MECHANICAL PARTS / GEHÄUSE UND MECHANISCHE BAUTEILE



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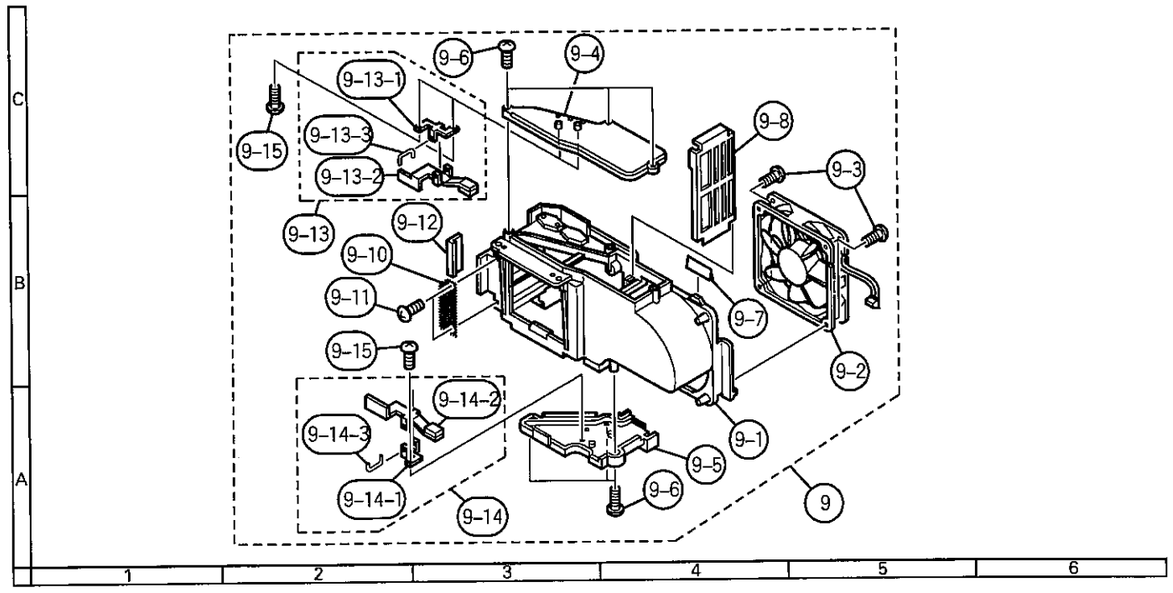
CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	CBDYR1028CEK2	J	Rear Body Assy	AY
1-1	*Not Available*	–	Rear Body	—
1-2	HiNDP4372CESC	J	Indication Plate, Jack	AG
1-3	HiNDP4725CESA	J	Indication Plate, Model	AF
1-4	HiNDP4316CESB	J	Indication Plate	AF
1-5	HiNDP4368CESD	J	Indication Plate	AC
2	CBDYT1020CEK2	J	Top Body Ass'y	BE
2-1	*Not Available*	–	Top Body	—
2-2	HBDGB3107CESA	J	Badge, SHARP	AL
2-3	HiNDP4330CESA	J	Indication Plate, LED	AL
2-4	HiNDP4637CESi	J	Indication Plate, Lens Caution	AD
2-5	JBTN-1803CESC	J	Button, Power	AE
2-6	*Not Used*			
2-7	MSPRC0146CEFW	J	Spring, Power Button	AC
2-8	PGiDM0017CE00	J	Guide, Button	AB
3	CBDYU1016CEK9	J	Bottom Body Ass'y	BQ
3-1	*Not Available*	–	Bottom Body	—
3-2	CCOVA1477CE16	J	Fan Cover	AS
3-3	GLEGP9085CESA	J	Leg, Left-Rear	AM
3-4	GLEGP9086CESA	J	Leg, Right-Rear	AM
3-5	GLEGP9083CESA	J	Leg, Left-Front	AM
3-6	GLEGP9084CESA	J	Leg, Right-Front	AM
3-7	PSPAV0170CEZZ	J	Spacer	AE
3-8	LANGH0120CEFW	J	Top Body Retainer	AE
3-9	LANGK0442CEFW	J	Leg Angle-A, x2	AC
3-10	LANGK0443CEFW	J	Leg Angle-B, x2	AC
3-11	LANGS0092CEFW	J	Speaker Holder-A	AC
3-12	LANGS0093CEFW	J	Speaker Holder-B	AC
3-13	LHLDW1173CEZZ	J	Wire Holder, x2	AD
3-14	LHLDZ1777CEZZ	J	Holder, x1	AC
3-15	PCOVU1015CE00	J	Light Shielding Cover, x8	AA
3-16	PFiLD0024CEZZ	J	Filter-B	AF
3-17	PFiLD0027CEZZ	J	Filter	AF
3-18	QCNW-3662CEZZ	J	Connecting Cord	AH
3-19	QCNW-3664CEZZ	J	Connecting Cord, (SP)	AE
3-20	LHLDW1046CEZZ	J	Wire Holder	AA
3-21	QSW-Z0040CEZZ	J	Membrane Switch	BA
3-22	VSP0080P-H4WA	J	Speaker	AM
3-23	XEBSD26P08000	J	Screw, x1, for Switch	AA
3-24	LX-BZ3292CEFF	J	Screw, x8, Leg Cover	AA
3-25	XTASF40P16000	J	Screw, x5	AA
4	CCHSK0012CE03	J	Optics Mech. Ass'y	CX
5	*Not Used*			
6	CCOVA1478CEK7	J	Lamp Cover Ass'y	AN
6-1	*Not Available*	–	Lamp Cover	—
6-2	LX-UZ3021CESG	J	Screw	AD
6-3	XRESJ30-06000	J	E-Ring	AA
6-4	*Not Used*			
6-5	PSPAH0454CE00	J	Himelon, x2	AA
7	CCOVA1479CEK6	J	Side Fan Cover Ass'y	AS
7-1	*Not Available*	–	Side Fan Cover	—
7-2	QCNW-3663CEZZ	J	Leaf Switch	AH
7-3	XEBSD26P08000	J	Screw, x1, for Leaf Sw.	AA
8	CCOVA1480CE15	J	Terminal Cover Ass'y	AR
8-1	*Not Available*	–	Terminal Cover	—
8-2	*Not Available*	–	Plastic Bag	—
9	CCOVZ1049CEK3	J	Duct Ass'y	BM
9-1	*Not Available*	–	Duct Base	—
9-2	NFANR0017CE00	J	Fan	BC
9-3	XEBSF40P16000	J	Screw, x4, for Fan	AA
9-4	PCOVZ1050CEKZ	J	Duct Cover-B	AL
9-5	PCOVZ1011CEZZ	J	Duct Cover-A	AG
9-6	XEPSF30P10000	J	Screw, x6	AA
9-7	PSPAT0010CEZZ	J	Tape, x1	AA
9-8	LANGH0119CEFW	J	Guard	AD
9-9	*Not Used*			
9-10	HPNC-0398CEFW	J	Punching Plate	AF
9-11	XEPSN30P05000	J	Screw, x2	AB
9-12	PSPAT0009CEZZ	J	Tape, x1	AB
9-13	CANGH0130CE01	J	Active Duct Ass'y	AL
9-13-1	*Not Available*	–	Active Duct Base	—
9-13-2	*Not Available*	–	Active Duct	—
9-13-3	*Not Available*	–	Shaft	—
9-14	CANGH0131CE01	J	Active Duct Ass'y	AL
9-14-1	*Not Available*	–	Active Duct Base	—
9-14-2	*Not Available*	–	Active Duct	—
9-14-3	*Not Available*	–	Shaft	—
9-15	XEPSD30P06000	J	Screw, x4, for Active Ducts	AA
10	*Not Used*			
11	*Not Used*			
12	*Not Used*			
13	*Not Used*			
14	*Not Used*			
15	*Not Used*			
16	*Not Used*			
⚠17	BQC-XV380H//1	J	Lamp Unit (Lamp/Cage Module)	CH
⚠17-1	CLMPF0031DE01	J	Lamp/Mirror Ass'y	CC
17-2	CHLDZ1774CE13	J	Lamp Case Ass'y	AS
17-2-1	LHLDZ1774CEZZ	J	Lamp Case	AM
17-2-2	PSLDH1005CEZZ	J	Heat Shield	AK
17-2-3	TLABZ0626CEZZ	J	Caution Label	AC
17-3	CHLDZ1775CE01	J	Lamp Case Ass'y, Lower	AQ
17-3-1	LHLDZ1775CEZZ	J	Lamp Case, Lower	AN
17-3-2	PSLDH3034CEFW	J	Shield, x2	AD
17-4	LX-BZ3270CEFN	J	Screw, x1	AA
17-5	LX-NZ3108CEFN	J	Nut, x1	AA
17-6	LX-WZ3102CEFN	J	Washer, x1	AA
17-7	MSPRB0015CEFW	J	Spring, 1	AF
17-8	QPLGN0156FJZZ	J	Plug	AN
18	*Not Used*			

CABINET AND MECHANICAL PARTS (Continued)

Ref. No.	Part No.	★	Description	Code
19	PCAPH1035CESA	J	Lens Cap	AK
20	PLNS-0041CESA	J	Projection Lens	CH
21	LANGT2084CEFW	J	Angle, LCD R/B	AQ
22	LANGT2085CEFW	J	Angle, LCD G	AQ
23	*Not Used*			
24	*Not Used*			
25	*Not Used*			
26	PFiLW0083CEZZ	J	Polarizer Input Filter, R/G	AX
27	PFiLW0084CEZZ	J	Polarizer Input Filter, B	BD
28	PFiLW0085CEZZ	J	Polarizer Output Filter, R	AY
29	PFiLW0086CEZZ	J	Polarizer Output Filter, G	AY
30	PFiLW0087CEZZ	J	Polarizer Output Filter, B	AY
31	QCNW-3852CEZZ	J	R/G/B FCC	AQ
32	*Not Used*			
33	*Not Used*			
34	RLCDP0022CEZZ	J	LCD Module Unit, R/G	DB
35	RLCDP0023CEZZ	J	LCD Module Unit, B	DB
36	XHPSF30P14WS0	J	Screw, x12	AA
37	*Not Used*			
38	LX-BZ3220CEFD	J	Screw, x1, Thermistor	AA
39	LX-BZ3284CEFF	J	Screw, x4, Suction Fan	AB
40	*Not Used*			
41	LX-TZ3060CESi	J	Screw, x6	AC
42	NFANR0050CE00	J	Suction Fan	BC
43	*Not Used*			
44	*Not Available*	–	Main Unit	—
44-1	LHLDZ1768CEZZ	J	Jack Holder	AC
45	*Not Available*	–	Input Unit	—
46	*Not Available*	–	Control Unit	—
47	*Not Available*	–	LED Unit	—
47-1	LHLDZ1766CE00	J	LED Holder	AE
48	*Not Available*	–	Bimetal Unit	—
48-1	RBiM-0007CEZZ	J	Bimetal, x2	AN
48-2	LHLDW1033CEKZ	J	Wire Holder, x2	AA
48-3	QCNW-4499CEZZ	J	Connecting Wire	AG
⚠49	CACCB5013CE02	J	AC Cord (For U.K. only)	AY
⚠49	QACCL3017CESA	J	AC Cord (For Australia and New Zealand only)	AR
⚠49	QACCV2013CESA	J	AC Cord (Not for U.K., Australia and New Zealand)	AN
50	*Not Available*	–	Power Unit	—
51	*Not Available*	–	Ballast Unit	—
52	RH-HZ0024CEZZ	J	Thermistor	AP
53	XBPSD40P08JS0	J	Screw, x6	AA
54	XBPSD40P12JS0	J	Screw, x5	AA
55	XEBSN30P10000	J	Screw, x3	AA
56	XEPSD40P12000	J	Screw, x2	AA
57	QCNW-3528CEZZ	J	Connecting Wire, x3	AB
58	XHPSD30P08WS0	J	Screw, x2	AA
59	XTASF40P16000	J	Screw, x5	AA
60	XTBSD40P30000	J	Screw, x7	AA
61	QCNW-4415CEZZ	J	Connecting Wire, x2	AD
62	HiNDP4749CEZZ	J	Number Label	AD
63	*Not Available*	–	Scan Converter Unit	—
64	JKNBP1065CESB	J	Knob, Main's Power	AC
65	RCORF0054CEZZ	J	Ferrite Core, x2	AM
66	RTRNC0062CEZZ	J	Choke Trans. (For Europe, U.K., Australia and New Zealand)	AY
67	XEPSD30P06000	J	Screw, x4	AA
68	PSPAZ0135CEKZ	J	Bimetal Spacer	AD
69	QCNW-4413CEZZ	J	Connecting Wire	AD



Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESSORIES

ACCESSORIES

HiNDP4366CESB	J	Inverted Label	AE
PFiLD0030CEZZ	J	Extra Air Filter	AG
QCNW-3740CEZZ	J	A/V Cable	BB
RRMCG1310CESA	J	Infrared R/C Unit	BA
TiNS-5999CEZZ	J	Operation Manual	AY
QSOCZ0305CEZZ	J	21-pin RCA Conversion Adaptor (For Europe and U.K. only)	AQ
QPLGA0010GEZZ	J	AC Plug Adaptor (Not for Eorope, U.K., Australia and New Zealand)	AF

ACCESSORIES (NOT REPLACEMENT ITEM)

TCADS3003CEZZ	–	SS List (Not for Eorope, U.K., Australia and New Zealand)	—
TCADE1137CEZZ	–	Register Card (For Europe only)	—
TGANE0050TAZZ	–	Guarantee Card (For Australia and New Zealand Only)	—
UBATU0026GEZZ	–	Dry Batteries, AAA x2	—

PACKING CASE
(NOT REPLACEMENT ITEM)

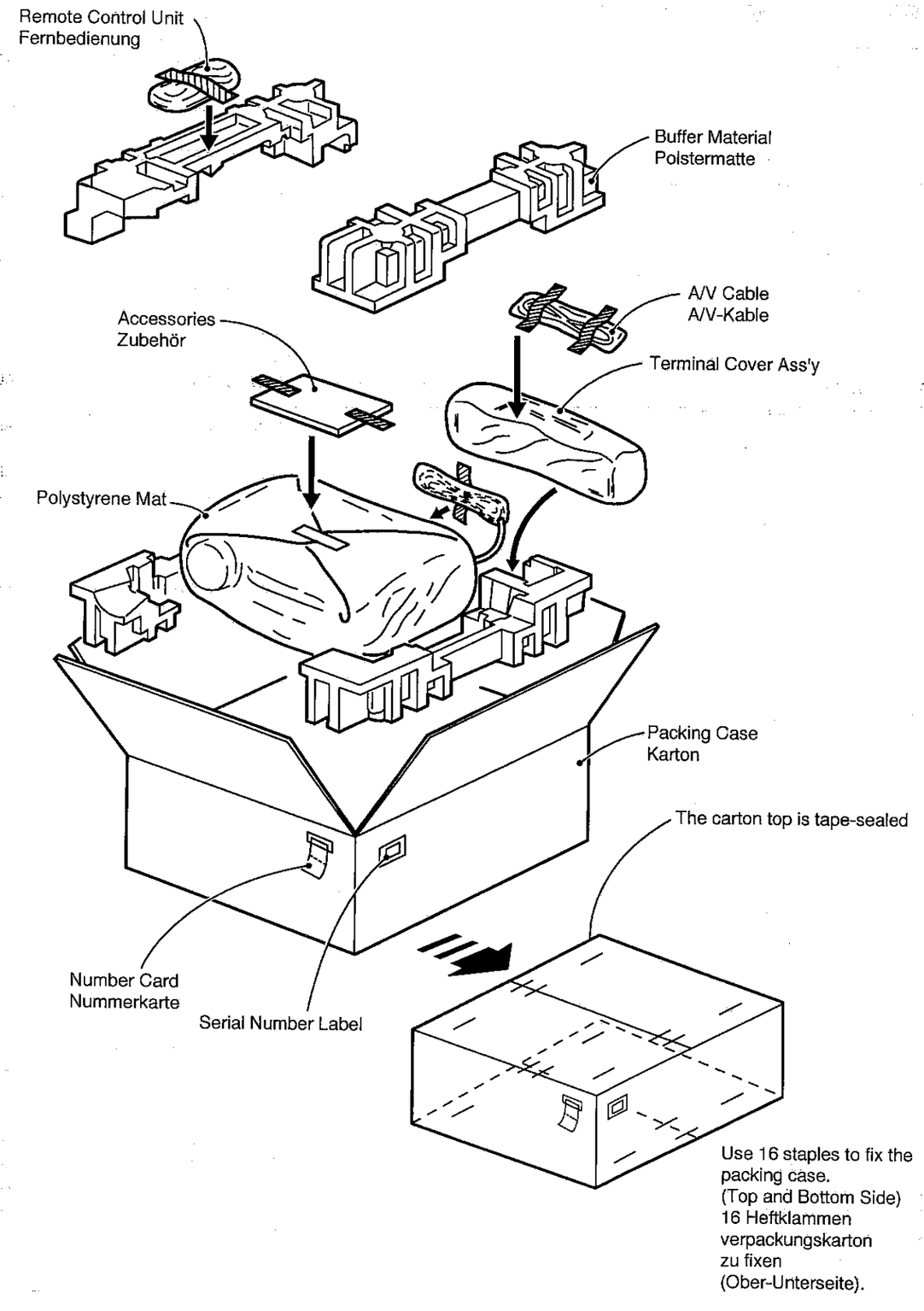
SPAKC4977CEZZ	–	Packing Case	—
SPAKP0692CEZZ	–	Polystyrene Mat	—
SPAKX2514CEZZ	–	Buffer Material	—
TLABK0001TAZZ	–	Number Card	—
TLABN0157CEZZ	–	Serial Number Label	—

Ref. No.	Part No.	★	Description	Code

SERVICE PARTS

QCNW-3831CEZZ	J	Extension Cable 12-pin, (TA)-(TA)	BC
QCNW-3831CEZZ	J	Extension Cable 12-pin, (TB)-(TB)	BC
QCNW-4473CEZZ	J	Extension Cable 16-pin, (MA)-(MA)	AS
QCNW-4473CEZZ	J	Extension Cable 16-pin, (MB)-(MB)	AS
QCNW-4473CEZZ	J	Extension Cable 16-pin, (CA)-(CA)	AS
QSW-Z0040CEZZ	J	Membrane Switch (Use for Servicing Main Unit)	BA

PACKING OF THE SET / VERPACKEN DES GERÄTS



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